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Be inspired

Gigaset
4-Port Router
dsl/cable

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Safety precautions

- Only use the power adapter supplied for the Gigaset Router. Note the connection values when connecting the device to the mains.
- Protect the device from dampness.
- Never open the device. For electrical safety reasons it may only be opened by authorised service technicians.
- Make sure to include the operating instructions if you pass your Gigaset Router on someone else.
- Dispose of the Gigaset Router in an environmentally safe manner.

The Gigaset Router

Congratulations on your purchase of the Gigaset Router. Siemens is proud to provide you with a powerful yet simple communication device for connecting your local area network (LAN) to the Internet. For those who want to surf the Internet at the lowest possible cost, the Gigaset Router is the convenient, easy solution.

The Gigaset Router provides Internet access to multiple users by sharing a single-user account (depending on your Internet Service Provider). The Gigaset Router features a WAN interface that allows you to connect either a DSL or cable modem. The Gigaset Router provides extensive firewall protection and Virtual Private Network (VPN) services.

The Gigaset Router provides many cost-effective functions and management benefits. It is simple to configure and can be up and running in minutes.

Features and Benefits

- Internet connection to DSL or cable modem via a 10/100 Mbps WAN port
- Local network connection via 10/100 Mbps Ethernet switch ports

- DHCP for dynamic IP configuration, and DNS for domain name mapping
- Firewall with Stateful Packet Inspection, client privileges, hacker prevention, DoS, and NAT
- NAT also enables multi-user access with a single-user account, and virtual server functionality (providing protected access to Internet services such as web, mail, FTP, and Telnet)
- Virtual Private Network support using PPTP, L2TP, or IPSec pass-through
- User-definable application sensing tunnel supports applications requiring multiple connections
- Parental controls allow the user to bar certain web sites
- Email alerts when the user's network is being compromised
- Easy setup through a web browser on any operating system that supports TCP/IP
- Compatible with all popular Internet applications

Applications

Many advanced applications are provided by the Gigaset Router, such as:

- LAN Access

  The Gigaset Router provides connectivity to 10/100 Mbps devices, making it easy to create a network in small offices or homes.
- Internet Access

  This device supports Internet access through a DSL or cable connection. Since many DSL providers use PPPoE to establish communications with end users, the Gigaset Router includes a built-in client for this protocol, eliminating the need to install this service on your computer.
- Shared IP Address

  The Gigaset Router shares a single IP address with up to 253 users. Using only one ISP account, multiple users on your network can simultaneously browse the Internet.
- Virtual Server

  If you have a static IP address, you can set up the Gigaset Router to act as a virtual host for network address translation. Remote users access various services at your site using the static IP address. Then, depending on the requested service (or port number), the Gigaset Router routes the request to the appropriate server (at an internal network IP address). This secures your network from direct attack by hackers, and provides more flexible management by allowing you to change internal network IP addresses without affecting outside access to your network.

- User-Definable Application Sensing Tunnel

  You may define special applications that require multiple connections such as Internet gaming, video conferencing, and Internet telephony. The Gigaset Router will then sense the application type and open a multi-port tunnel for it.
- DMZ Hosts Support

  Allows a networked computer to be fully exposed to the Internet. This function is used when the special application sensing tunnel feature is insufficient to allow an application to function correctly.
- Security

  The Gigaset Router supports security features that deny Internet access to specified users, or drop requests for specific services. The Gigaset Router's firewall also blocks common hacker attacks.
- Virtual Private Network

  The Gigaset Router supports three of the most commonly used VPN protocols – PPTP, L2TP, and IPSec. These protocols allow remote users to establish a secure connection to their corporate network. If your service provider supports VPNs, then any of these protocols can be used to create an authenticated and encrypted tunnel for passing secure data over the Internet (i.e., a traditionally shared data network). The VPN protocols supported by the Gigaset Router are briefly described below.
  - Point-to-Point Tunneling Protocol – Provides a secure tunnel for remote client access to a PPTP security gateway. PPTP includes provisions for call origination and flow control required by ISPs.
  - Layer Two Tunneling Protocol – Includes most of the features provided by PPTP, but has less overhead and is more suited for managed networks.
  - IP Security – Provides IP network-layer encryption. IPSec can support large encryption networks (such as the Internet) by using digital certificates for device authentication.

Trademarks

All product and company names are trademarks or registered trademarks of their respective holders.

Getting started

System Requirements

You must meet the following minimum requirements:

- Computer with an Ethernet network card.
- Web browser, such as Microsoft Internet Explorer 5.5 or above, Netscape Communicator 6.0 or above for configuring your Gigaset Router.
- Cable/DSL modem and access data provided by your Internet Service Provider (ISP).

Package Contents

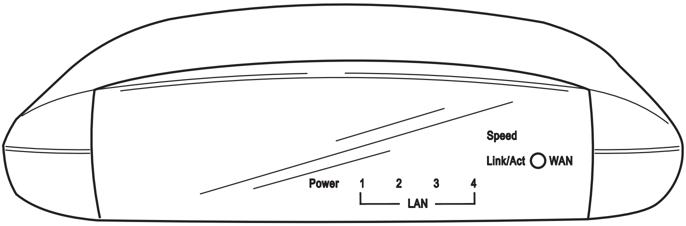
If any of the items are missing or damaged, contact your local Siemens distributor.

- Gigaset Router
- Power adapter
- One Ethernet cable (CAT-5)
- Installation CD including this User Guide
- Quick Installation Guide

If possible, retain the carton and original packing materials in case there is a need to return the product.

Before installing the Gigaset Router, verify that you have the items listed under "Package Contents". Also be sure that you have the necessary cabling.

Front Panel



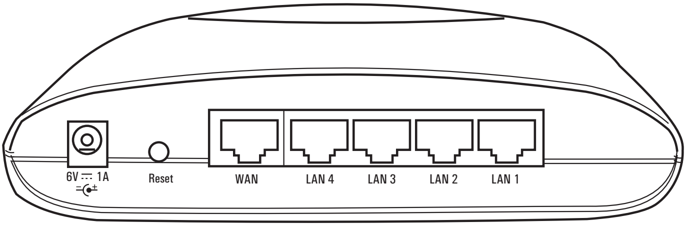
LED Indicators

The Gigaset Router includes LED indicators on the front panel that simplify installation and network troubleshooting.

Check the power and port indicators as shown in the following table.

LED	Condition	Status
Power (Green)	On	The Gigaset Router is receiving power.
WAN (Green)	On	The WAN port has established a valid network connection.
	Flashing	The WAN port is transmitting or receiving traffic.
Link/Act	On	The indicated LAN port has established a valid network connection.
	Flashing	The indicated LAN port is transmitting or receiving traffic.
Speed	On	The indicated LAN port is operating at 100 Mbps.
	Off	The indicated LAN port is operating at 10 Mbps.

Rear Panel



Item	Description
6V 1A	Connect the included power adapter to this port. **Warning**: Using the wrong type of power adapter may cause damage.
Reset	Use this button to reset the power or restore the default factory settings. Reboot by pushing 1 second. Return all settings to the factory defaults by pushing 5 seconds.
WAN	WAN port (RJ-45). Connect a cable modem, DSL modem, or an Ethernet router to this port.
LAN	Four 10/100 Mbps switch ports with automatic detection (RJ-45). Connect devices on your local area network to these ports (such as a PC, hub, or switch).

Connecting the System

The Gigaset Router can be positioned at any convenient location in your office or home. No special wiring or cooling requirements are needed. You should, however comply with the following guidelines:

- Only operate the Gigaset Router in covered areas with a temperature range of +5 to +40° C. Keep the Gigaset Router away from any heating devices.
- A 220/230 V~ mains socket and a connection to the DSL modem, cable modem or LAN must be available at the installation site of the Gigaset Router.
- Stand the Gigaset Router on a non-slip mat or pad.

  The device feet generally do not mark any surfaces with which they come into contact. However, some furniture surfaces may contain substances that will attack and soften the devices's plastic feet. Device feet affected in this way may mark furniture surfaces.
- Carefully position the leads so no one can trip over them. Nothing should be placed on top of these leads.

You should also remember to turn off the power, remove the power cord from the outlet, and keep your hands dry when handling the Gigaset Router.

Overview of the Steps to Install a Network

1. Please have your Internet Service Provider access data on hand.
2. Install DSL or cable modem. Please refer to the User Guide of your modem for installation information.
3. Install Ethernet network card. Please refer to the User Guide of your product for installation information.
4. Connect the Gigaset Router.
5. Set up the network.
6. Configure the Gigaset Router.
7. Optionally: Connect and configure further PCs.

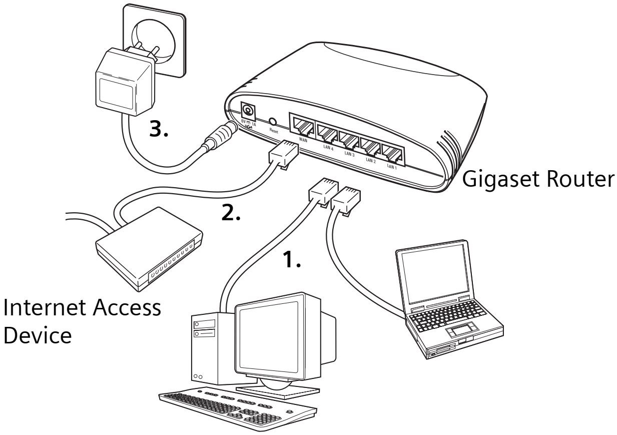
The Gigaset Router installation (steps 4-6) will take about 10 to 15 minutes.

Connecting the Gigaset Router

Before you start to connect your Gigaset Router to PCs make sure that

- a wired network adapter is connected to the PC. Please refer to your product’s User Guide for more information.

1. **Connect the LAN:**
   You can connect the Gigaset Router to your PC, or to a hub or switch. Connect an Ethernet cable from one of the LAN ports on the rear of the Gigaset Router (LAN 1 - LAN 4) to your computer’s Ethernet network card.
2. **Connect the WAN:**
   Connect the WAN port at the rear of the Gigaset Router to your cable/DSL modem using an Ethernet cable.
3. **Power on:**
   Plug the power adapter cable into the socket on the Gigaset Router. Plug the other end of the power adapter cable into a power outlet.



Attach to your Network using Ethernet cabling

The four LAN ports on the Gigaset Router can auto-negotiate the connection speed to 10 Mbps Ethernet or 100 Mbps Fast Ethernet, as well as the transmission mode to half-duplex or full-duplex.

Use Ethernet cables to connect any of the four LAN ports on the Gigaset Router to an Ethernet adapter on your PC. Otherwise, you can cascade any of the LAN ports on the Gigaset Router to an Ethernet hub or switch, and then connect your PC or other network equipment to the hub or switch. When inserting an RJ-45 plug, be sure the tab on the plug clicks into position to ensure that it is properly seated.

!	Do not plug a phone jack connector into any RJ-45 port. This may damage the Gigaset Router. Instead, use only Ethernet cables with RJ-45 connectors.

i	◆ Use 100-ohm shielded or unshielded Ethernet cable with RJ-45 connectors for all connections. Use Category 3, 4 or 5 for connections that operate at 10 Mbps, and Category 5 for connections that operate at 100 Mbps. ◆ Make sure each Ethernet cable does not exceed 100 meters (328 feet).

Connect to the Internet

If Internet services are provided through a DSL or cable modem, use unshielded or shielded Ethernet cable (Category 3 or higher) with RJ-45 plugs to connect the broadband modem directly to the WAN port on the Gigaset Router. Use either straight-through or cross-over cable depending on the port type provided by the modem.

i	When connecting to the WAN port, use 100-Ohm Category 3, 4 or 5 shielded or unshielded Ethernet cable with RJ-45 connectors at both ends for all connections.

Connecting the Power Adapter

Plug the power adapter cable into the power socket on the Gigaset Router, and the other end into a power outlet. Check that the indicator marked (Power) on the front panel is on. If the power indicator does not light up, refer to "Troubleshooting" on page 83.

Configuring Client PCs

TCP/IP Configuration

To access the Internet through the Gigaset Router, you must configure the network settings of the computers on your LAN to use the same IP subnet as the Gigaset Router. The default network settings for the Gigaset Router are:

IP Address:	192.168.2.1
Subnet Mask:	255.255.255.0

i	These settings may be changed to suit your network requirements, but you must first configure at least one computer as described in the chapter "Configuring the Gigaset Router" to access the Gigaset Router’s web configuration interface (see page 13).

If you have not previously configured TCP/IP for your computer, refer to "Configuring Client TCP/IP" on page 47.

All PCs connected to the Gigaset Router must be in the same IP subnet as the Gigaset Router. You can set the IP address for client PCs either by automatically obtaining an IP address from the Gigaset Router’s DHCP service or by manual configuration. See "Setting up TCP/IP to Work with the Gigaset Router" on page 50.

Configuring the Gigaset Router

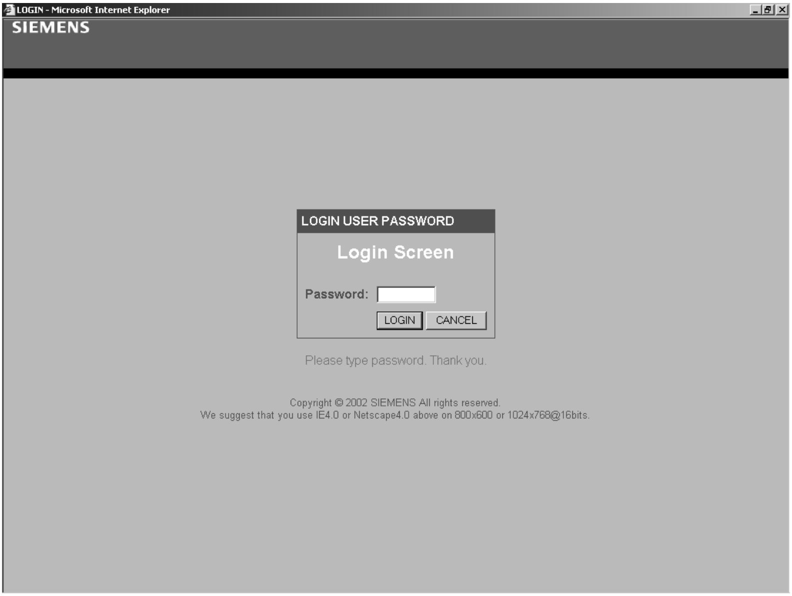
After you have configured TCP/IP on a client computer, use a web browser to configure the Gigaset Router. The Gigaset Router can be configured by any Java-supported browser including Internet Explorer 5.5 or above, or Netscape Navigator 6.0 or above. Using the web management interface, you may configure the Gigaset Router and view statistics to monitor network activity.

To access the Gigaset Router's management interface, enter the IP address of the Gigaset Router in your web browser

`http://192.168.2.1`

For some browsers, it may be necessary to include :80 after the IP address.

For example: `http://192.168.2.1:80`



Please type password. Thank you.

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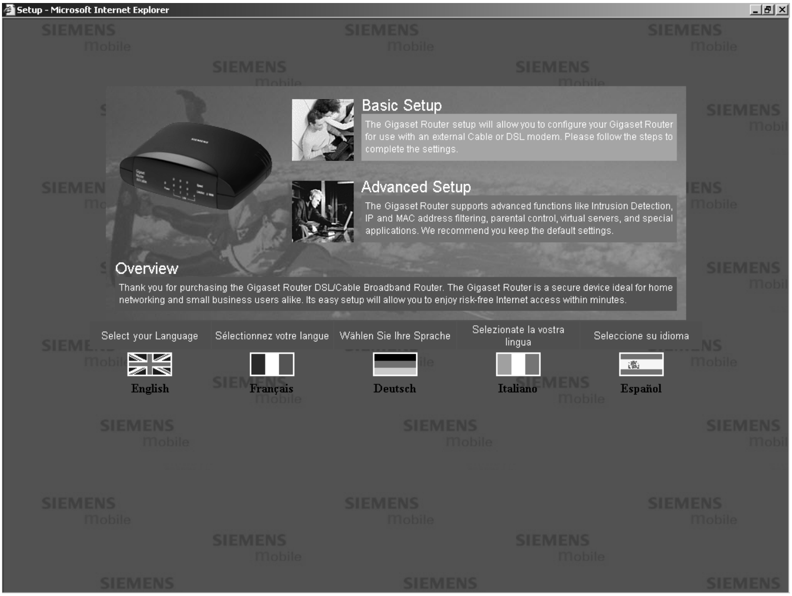
We suggest that you use IE4.0 or Netscape4.0 above on 800x600 or 1024x768@16bits.

Then click ***LOGIN*** (the default is no password).



Basic Setup

The Gigaset Router setup will allow you to configure your Gigaset Router for use with an external Cable or DSL modem. Please follow the steps to complete the settings.

Advanced Setup

The Gigaset Router supports advanced functions like Intrusion Detection, IP and MAC address filtering, parental control, virtual servers, and special applications. We recommend you keep the default settings.

Overview

Thank you for purchasing the Gigaset Router DSL/Cable Broadband Router. The Gigaset Router is a secure device ideal for home networking and small business users alike. Its easy setup will allow you to enjoy risk-free Internet access within minutes.

Selecting the Language for the User Interface

1. If you want to display the user interface in German, French, Italian or Spanish, click on the flag of the desired country on the first page.

   A new window is displayed where you can select the language.
2. Insert the installation CD into your CD ROM drive.
3. Click ***Browse*** and select your language file.
4. Then click ***Refresh*** and in the following window click ***OK***, to confirm your selection.
5. Refresh the web page. The user interface will now be displayed in the desired language.

Navigating in the Web Browser Interface

The Gigaset Router’s management interface features a Basic Setup and an Advanced Setup section. Use Basic Setup if you want to quickly set up the Gigaset Router for use with a cable modem or DSL modem.

Advanced Setup supports more advanced functions like hacker attack detection, IP and MAC address filtering, intrusion detection, virtual server setup, virtual DMZ hosts, as well as other advanced functions.

Making Configuration Changes

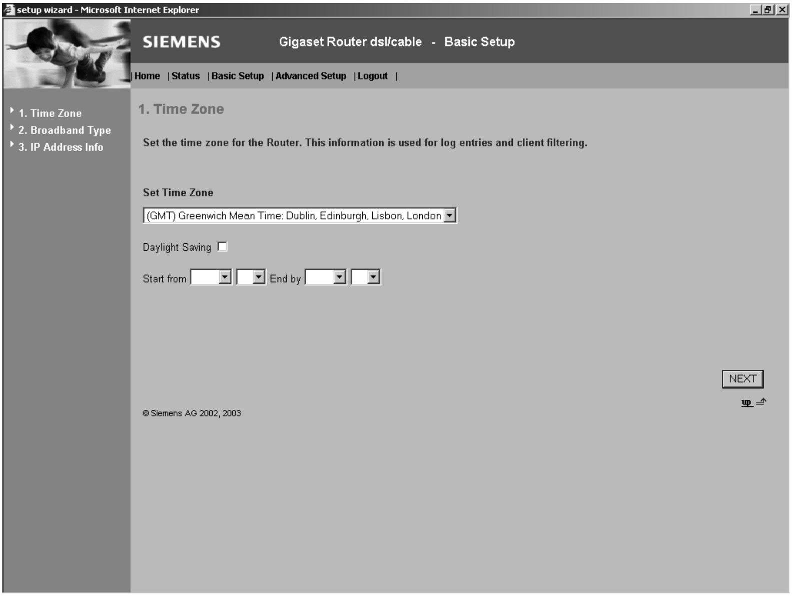
Configurable parameters have a dialog box or a drop-down list. Once a configuration change has been made on a page, be sure to click the ***APPLY*** or ***NEXT*** button at the bottom of the page to enable the new setting.

i	To ensure proper screen refresh after a command entry, make sure that Internet Explorer 5.0 is configured as follows: Under the menu ***Tools*** - ***Internet Options*** - ***General*** - ***Temporary Internet Files*** - ***Settings***, the setting for ***Check for newer versions of stored pages*** should be ***Every visit to the page***.

Basic Setup

Time Zone

Click on ***Basic Setup***. The first item in the ***Basic Setup*** is the setting for ***Time Zone***.


setup wizard - Microsoft Internet Explorer
SIEMENS
Gigaset Router dsl/cable - Basic Setup
|Home |Status |Basic Setup |Advanced Setup |Logout |
1. Time Zone
2. Broadband Type
3. IP Address Info
NEXT
up

1. Time Zone

Set the time zone for the Router. This information is used for log entries and client filtering.

Set Time Zone

(GMT) Greenwich Mean Time: Dublin, Edinburgh, Lisbon, London

Daylight Saving ☐

Start from End by

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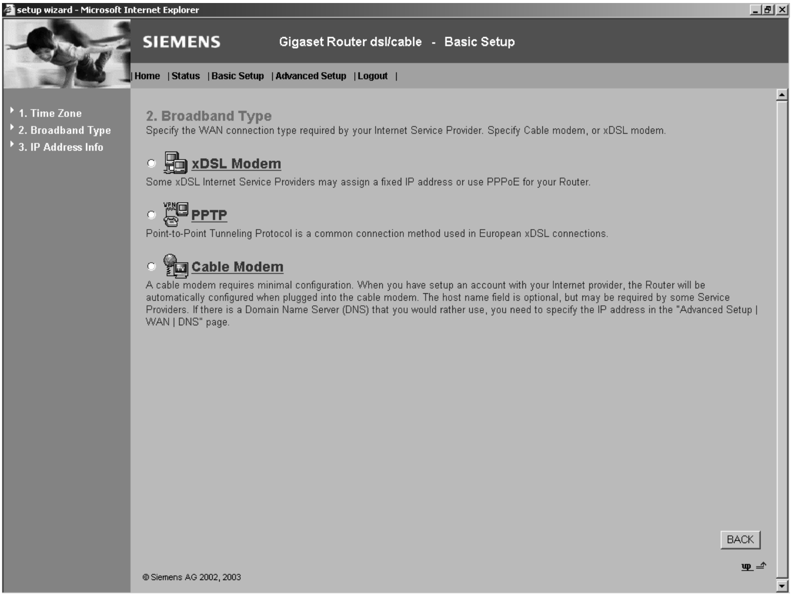
For accurate timing of client filtering and log events, you also need to set the country. Select your country.

Click ***NEXT***.

Broadband Type

Select the type of broadband connection you are using.



setup wizard - Microsoft Internet Explorer
SIEMENS
Gigaset Router dsl/cable - Basic Setup
|Home |Status |Basic Setup |Advanced Setup |Logout |
1. Time Zone
2. Broadband Type
3. IP Address Info
BACK
up

2. Broadband Type

Specify the WAN connection type required by your Internet Service Provider. Specify Cable modem, or xDSL modem.

○ **xDSL Modem**

Some xDSL Internet Service Providers may assign a fixed IP address or use PPPoE for your Router.

○ **PPTP**

Point-to-Point Tunneling Protocol is a common connection method used in European xDSL connections.

○ **Cable Modem**

A cable modem requires minimal configuration. When you have setup an account with your Internet provider, the Router will be automatically configured when plugged into the cable modem. The host name field is optional, but may be required by some Service Providers. If there is a Domain Name Server (DNS) that you would rather use, you need to specify the IP address in the "Advanced Setup | WAN | DNS" page.

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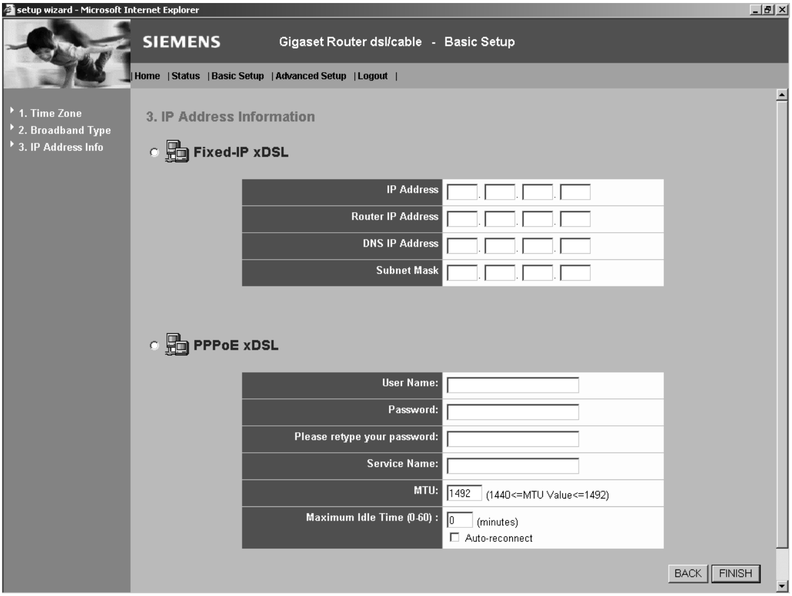
DSL Modem


setup wizard - Microsoft Internet Explorer
SIEMENS
Gigaset Router dsl/cable - Basic Setup
|Home |Status |Basic Setup |Advanced Setup |Logout |
1. Time Zone
2. Broadband Type
3. IP Address Info
BACK
FINISH

3. IP Address Information

○ Fixed-IP xDSL

IP Address ☐.☐.☐.☐
Router IP Address ☐.☐.☐.☐
DNS IP Address ☐.☐.☐.☐
Subnet Mask ☐.☐.☐.☐

○ PPPoE xDSL

User Name:
Password:
Please retype your password:
Service Name:
MTU: 1492 (1440<=MTU Value<=1492)
Maximum Idle Time (0-60) : 0 (minutes)
☐ Auto-reconnect

- **Fixed-IP xDSL**

  Some DSL Internet Service Providers may assign a fixed (static) IP address for your gateway. If you have been provided with this information, choose this option and enter the assigned parameters.

- **PPPoE** DSL

  Enter the PPPoE user name and password assigned by your Service Provider.

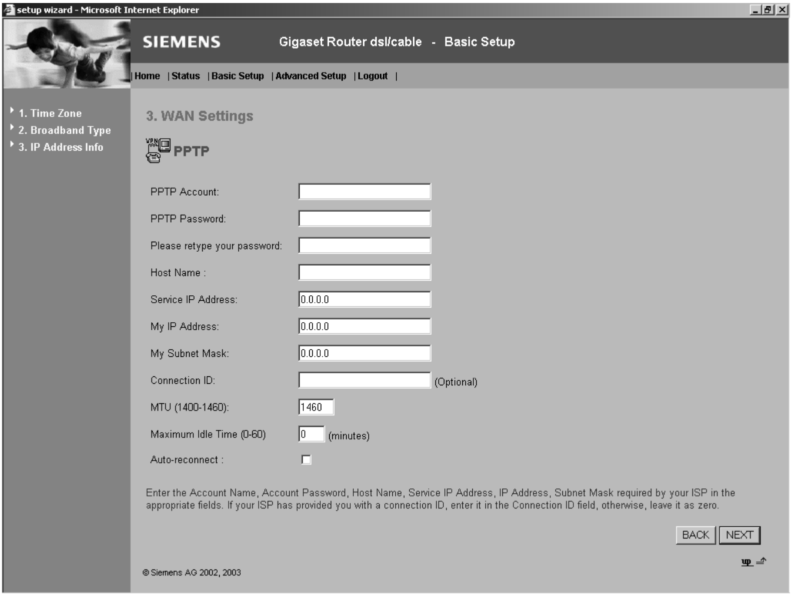
  The service name is optional but may be required by some Service Providers.

  Leave the default values unless you have particular reason to change them.

  Enter a Maximum Idle Time to define a maximum period of time after which the Internet connection is closed down automatically if no data is transmitted. Deactivate the ***Auto-reconnect*** option, if you want to prevent programs, such as the Web browser, Messenger or Email, from automatically re-establishing a connection to the Internet. This will help you to save costs if you are not on a flat rate plan.

Click ***FINISH*** to complete the setup.

PPTP


setup wizard - Microsoft Internet Explorer
SIEMENS
Gigaset Router dsl/cable - Basic Setup
Home | Status | Basic Setup | Advanced Setup | Logout |
1. Time Zone
2. Broadband Type
3. IP Address Info
BACK
NEXT
up

3. WAN Settings

PPTP

PPTP Account:

PPTP Password:

Please retype your password:

Host Name :

Service IP Address: 0.0.0.0

My IP Address: 0.0.0.0

My Subnet Mask: 0.0.0.0

Connection ID: (Optional)

MTU (1400-1460): 1460

Maximum Idle Time (0-60) 0 (minutes)

Auto-reconnect : ☐

Enter the Account Name, Account Password, Host Name, Service IP Address, IP Address, Subnet Mask required by your ISP in the appropriate fields. If your ISP has provided you with a connection ID, enter it in the Connection ID field, otherwise, leave it as zero.

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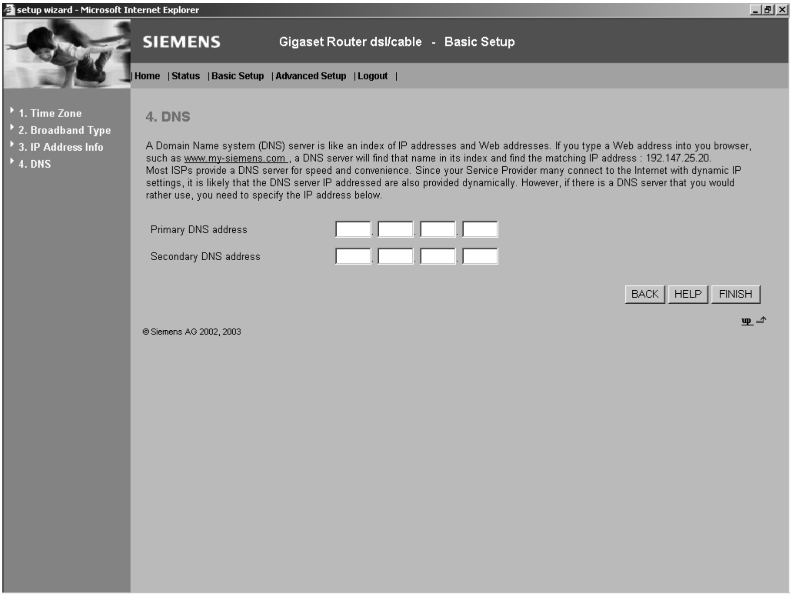
Enter the parameters provided to you by your Internet Service Provider. Click ***NEXT***.


setup wizard - Microsoft Internet Explorer
SIEMENS
Gigaset Router dsl/cable - Basic Setup
Home | Status | Basic Setup | Advanced Setup | Logout |
1. Time Zone
2. Broadband Type
3. IP Address Info
4. DNS
BACK
HELP
FINISH
up

4. DNS

A Domain Name system (DNS) server is like an index of IP addresses and Web addresses. If you type a Web address into you browser, such as www.my-siemens.com , a DNS server will find that name in its index and find the matching IP address : 192.147.25.20. Most ISPs provide a DNS server for speed and convenience. Since your Service Provider many connect to the Internet with dynamic IP settings, it is likely that the DNS server IP addressed are also provided dynamically. However, if there is a DNS server that you would rather use, you need to specify the IP address below.

Primary DNS address

Secondary DNS address

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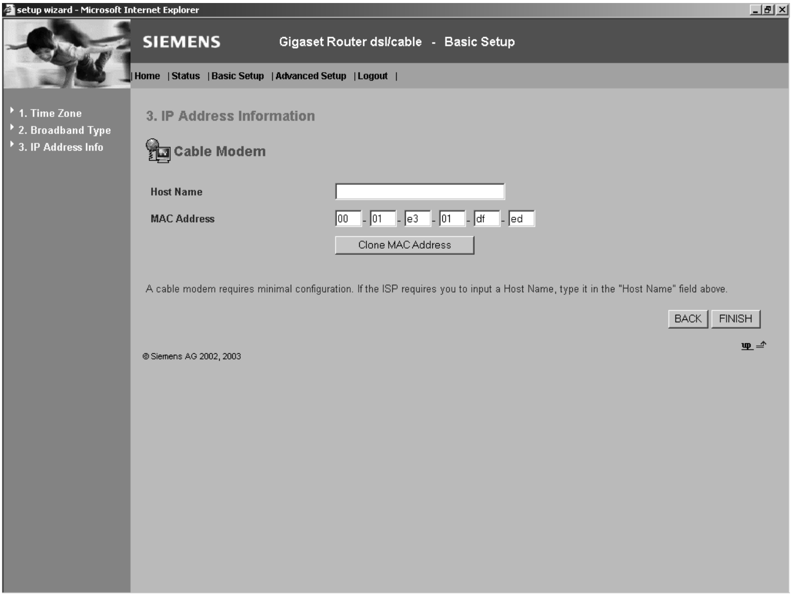
Click ***FINISH*** to complete the setup.

Cable Modem


setup wizard - Microsoft Internet Explorer
SIEMENS
Gigaset Router dsl/cable - Basic Setup
|Home |Status |Basic Setup |Advanced Setup |Logout |
1. Time Zone
2. Broadband Type
3. IP Address Info
Clone MAC Address
BACK
FINISH
up

3. IP Address Information

Cable Modem

Host Name

MAC Address 00 - 01 - e3 - 01 - df - ed

A cable modem requires minimal configuration. If the ISP requires you to input a Host Name, type it in the "Host Name" field above.

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Your ISP may have given you a host name. If so, enter it in this field.
Click ***FINISH*** to complete the setup.

Advanced Setup

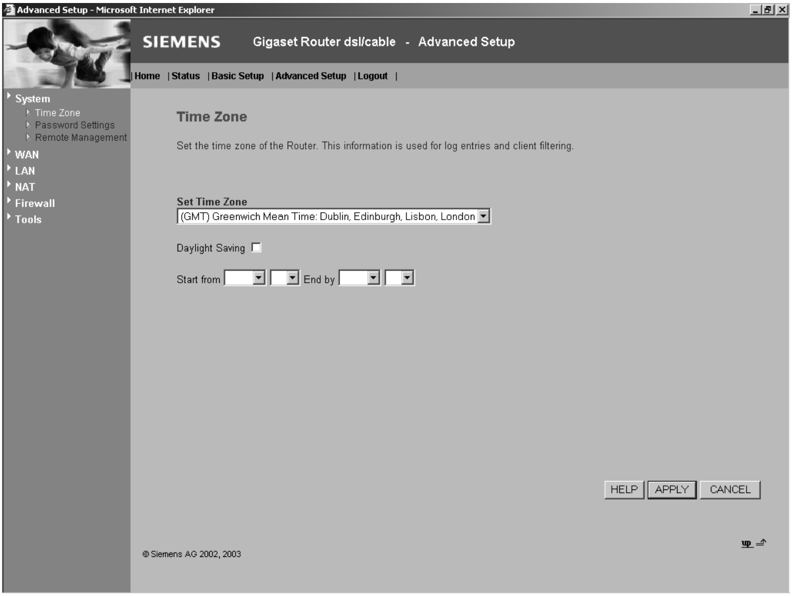
Use the Web user interface to define system parameters, manage and control the Gigaset Router and its ports, and to monitor network conditions. The following tables outline the selections available from this program.

Navigation bar	Description
Home	Goes to the start page.
Status	Provides WAN connection type and status, firmware and hardware version numbers, system IP settings, as well as DHCP, NAT, Firewall info. Displays the number of attached clients, the firmware versions, the physical MAC address for each media interface, and the hardware version and serial number. Shows the security and DHCP client log.
Basic Setup	Starts Basic Setup.
Advanced Setup	Starts Advanced Setup.
Logout	You can log off with this function.

Menu	Description
System	Sets the local time zone, the password for administrator access, and the IP address of a PC that will be allowed to manage the Gigaset Router remotely.
WAN	Specifies the Internet connection type: (1) Dynamic IP, (2) PPPoE, (3) Static IP address, or (4) Bridge.
LAN	Sets the TCP/IP configuration of the Gigaset Router’s LAN interface and all DHCP clients.
NAT	Shares a single ISP account with multiple users, sets up virtual servers.
Firewall	Configures a variety of security and specialized functions, including Access Control, Hacker Prevention and DMZ.
Tools	Contains options to backup & restore the current configuration, restore all configuration settings to the factory defaults, update system firmware or reset the system.

System

Time Zone


Advanced Setup - Microsoft Internet Explorer
SIEMENS
Gigaset Router dsl/cable - Advanced Setup
|Home |Status |Basic Setup |Advanced Setup |Logout |
System
Time Zone
Password Settings
Remote Management
WAN
LAN
NAT
Firewall
Tools
HELP
APPLY
CANCEL
up

Time Zone

Set the time zone of the Router. This information is used for log entries and client filtering.

Set Time Zone
(GMT) Greenwich Mean Time: Dublin, Edinburgh, Lisbon, London

Daylight Saving ☐

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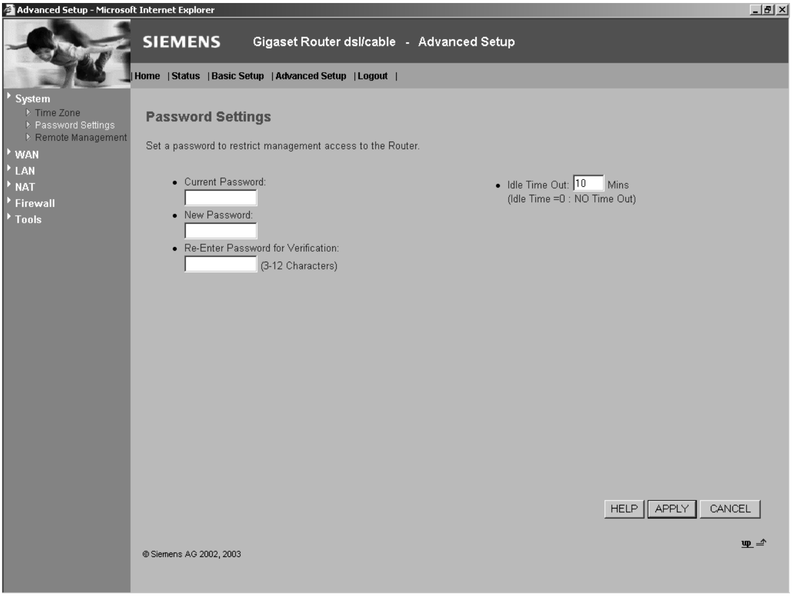
Sets the country for the Gigaset Router. The information about the country is necessary for the timing of log entries and client access control.

Password Settings



Password Settings

Set a password to restrict management access to the Router.

- Current Password:
- New Password:
- Re-Enter Password for Verification: (3-12 Characters)
- Idle Time Out: 10 Mins (Idle Time =0 : NO Time Out)

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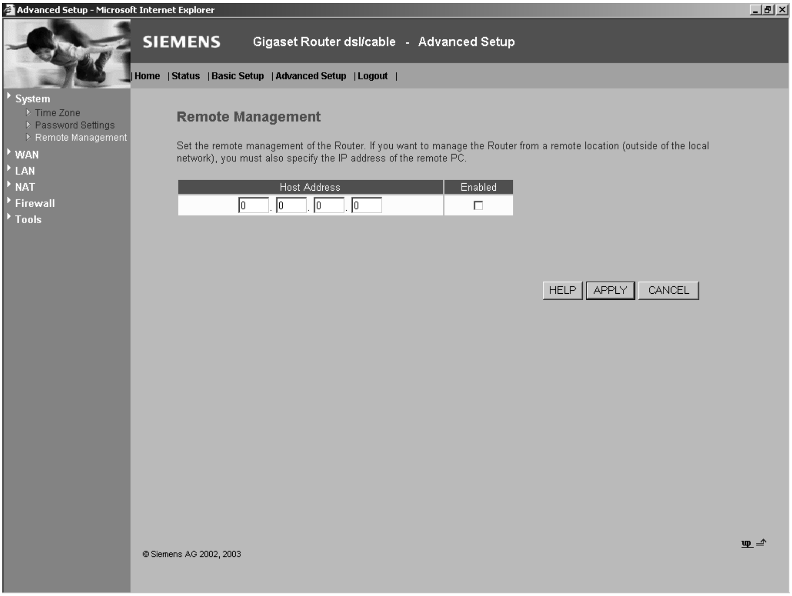
Use this menu to restrict access based on a password. The default is no password. For security reasons you should assign one before using the Gigaset Router to access the Internet.

Passwords can contain from 3–12 alphanumeric characters and are not case sensitive.

i	If your password is lost, or you cannot gain access to the user interface, press the Reset button on the rear panel (holding it down for at least five seconds) to restore the factory defaults (default is no password). **Warning**: The reset will set **all** data to the factory defaults.

Remote Management



Remote Management

Set the remote management of the Router. If you want to manage the Router from a remote location (outside of the local network), you must also specify the IP address of the remote PC.

Host Address	Enabled
0 . 0 . 0 . 0	☐

Allows a remote PC to configure, manage, and monitor the Gigaset Router using a standard web browser.

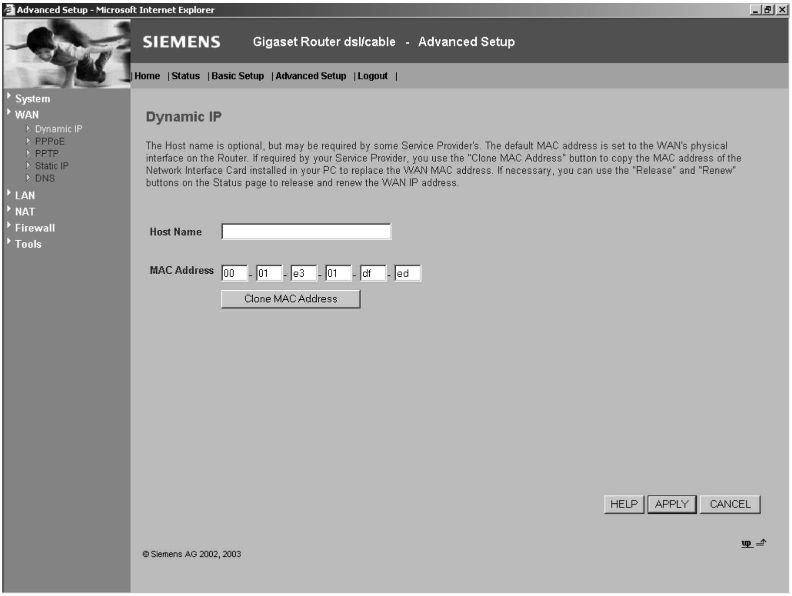
> You must know the current IP address, which is assigned by your Internet Service Provider to allow remote management.
>
> If you specify an IP address of 0.0.0.0, any host can manage the Gigaset Router.

Check ***Enabled*** and enter the IP address of the remote host. Click ***APPLY***.

WAN

Specify the WAN connection type provided by your Internet Service Provider, then click ***More Configuration*** to enter detailed configuration parameters for the selected connection type.

Dynamic IP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Dynamic IP

The Host name is optional, but may be required by some Service Provider's. The default MAC address is set to the WAN's physical interface on the Router. If required by your Service Provider, you use the "Clone MAC Address" button to copy the MAC address of the Network Interface Card installed in your PC to replace the WAN MAC address. If necessary, you can use the "Release" and "Renew" buttons on the Status page to release and renew the WAN IP address.

Host Name

MAC Address 00 - 01 - e3 - 01 - df - ed

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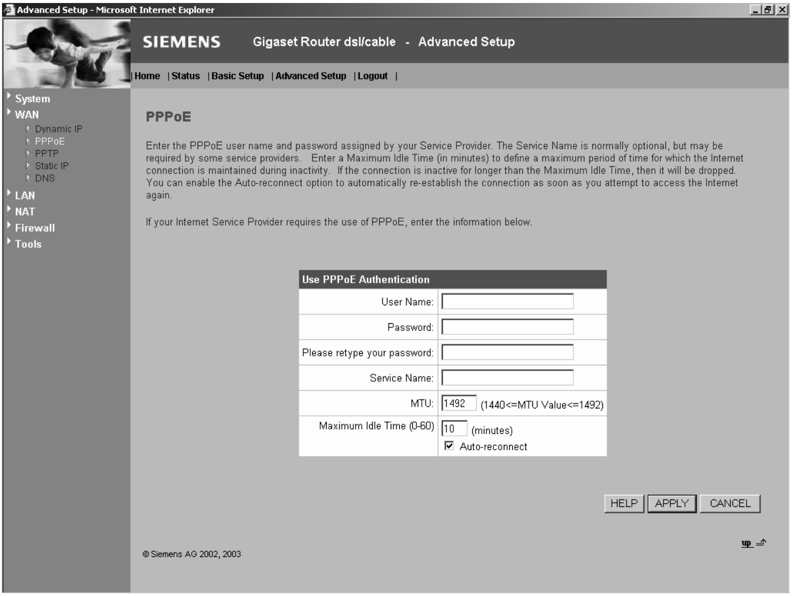
The host name is optional, but may be required by some ISPs. The default MAC address is set to the WAN's physical interface on the Gigaset Router. Use this address when registering for Internet service, and do not change it unless required by your ISP. If your ISP used the MAC address of an Ethernet card as an identifier when first setting up your broadband account, connect only the PC with the registered MAC address to the Gigaset Router and click the ***Clone MAC Address*** button. This will replace the current Gigaset Router MAC address with the already registered Ethernet card MAC address.

If you are unsure of which PC was originally set up by the broadband technician, call your ISP and request they register a new MAC address for your account. Register using the default Gigaset Router MAC address.

PPPoE DSL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PPPoE

Enter the PPPoE user name and password assigned by your Service Provider. The Service Name is normally optional, but may be required by some service providers. Enter a Maximum Idle Time (in minutes) to define a maximum period of time for which the Internet connection is maintained during inactivity. If the connection is inactive for longer than the Maximum Idle Time, then it will be dropped. You can enable the Auto-reconnect option to automatically re-establish the connection as soon as you attempt to access the Internet again.

If your Internet Service Provider requires the use of PPPoE, enter the information below.

Use PPPoE Authentication	
User Name:	
Password:	
Please retype your password:	
Service Name:	
MTU:	1492 (1440<=MTU Value<=1492)
Maximum Idle Time (0-60)	10 (minutes) ☑ Auto-reconnect

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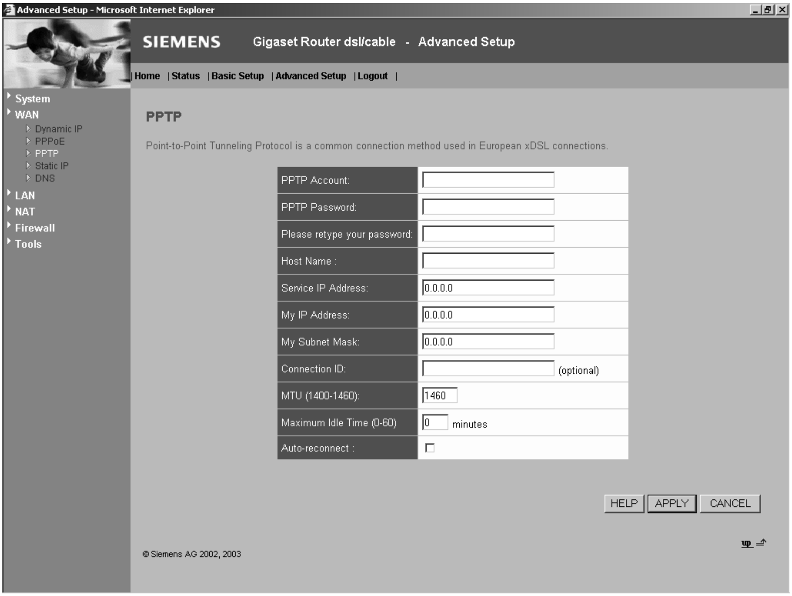
Enter the PPPoE user name and password assigned by your Service Provider.

The Service Name is normally optional, but may be required by some service providers.

Leave the default values unless you have a particular reason to change them.

Enter a maximum idle time, after which the Internet connection is dropped when no data is transmitted. Deactivate the ***Auto-reconnect*** option if you want to prevent programs, such as the Web browser, Messenger or Email, from automatically re-establishing a connection to the Internet This will help you to save costs if you are not on a flat rate plan.

PPTP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PPTP

Point-to-Point Tunneling Protocol is a common connection method used in European xDSL connections.

PPTP Account:	
PPTP Password:	
Please retype your password:	
Host Name :	
Service IP Address:	0.0.0.0
My IP Address:	0.0.0.0
My Subnet Mask:	0.0.0.0
Connection ID:	(optional)
MTU (1400-1460):	1460
Maximum Idle Time (0-60)	0 minutes
Auto-reconnect :	☐

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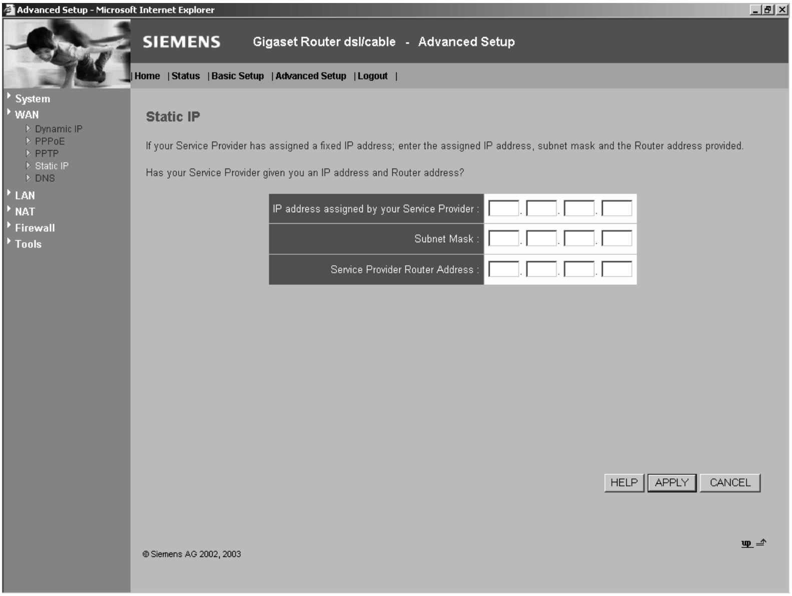
Point-to-Point Tunneling Protocol (PPTP) allows secure remote access over the Internet by simply dialing into a local point provided by an ISP. Using the above screen allows client PCs to establish a normal PPTP session and provides hassle-free configuration of the PPTP client on each client PC.

Static IP Address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Static IP

If your Service Provider has assigned a fixed IP address; enter the assigned IP address, subnet mask and the Router address provided.

Has your Service Provider given you an IP address and Router address?

IP address assigned by your Service Provider :	. . .
Subnet Mask :	. . .
Service Provider Router Address :	. . .

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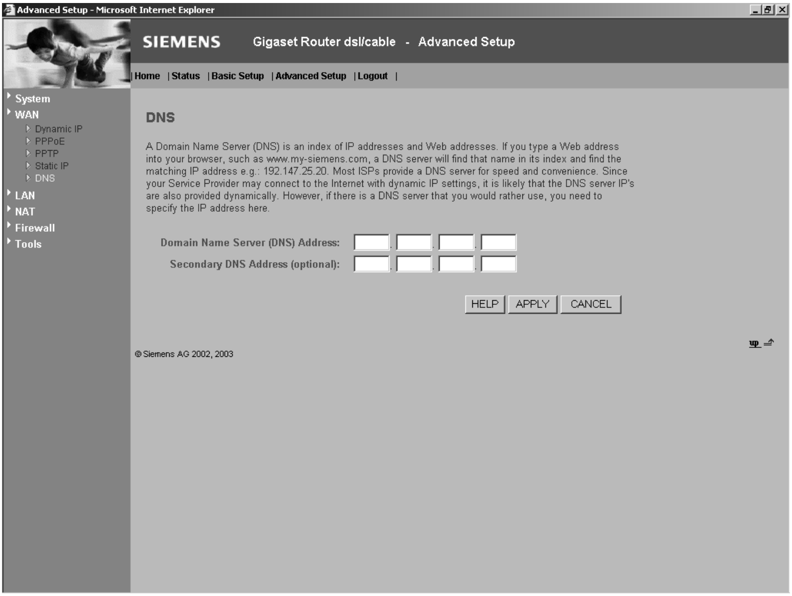
If your Internet Service Provider has assigned a fixed IP address, enter the assigned address and subnet mask for the Gigaset Router, then enter the gateway address of your ISP.

You may need a fixed address if you want to provide Internet services, such as a web server, or FTP server.

DNS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DNS

A Domain Name Server (DNS) is an index of IP addresses and Web addresses. If you type a Web address into your browser, such as www.my-siemens.com, a DNS server will find that name in its index and find the matching IP address e.g.: 192.147.25.20. Most ISPs provide a DNS server for speed and convenience. Since your Service Provider may connect to the Internet with dynamic IP settings, it is likely that the DNS server IP's are also provided dynamically. However, if there is a DNS server that you would rather use, you need to specify the IP address here.

Domain Name Server (DNS) Address: . . .
Secondary DNS Address (optional): . . .

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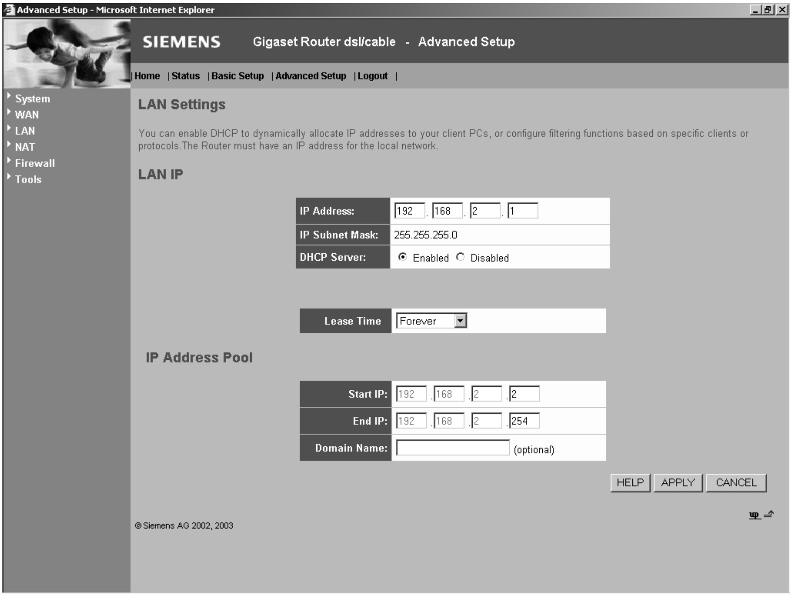
Domain Name Servers map numerical IP addresses to the equivalent domain name (e.g., www.siemens.com). Your ISP should provide the IP address of one or more domain name servers. Enter those addresses on this screen.

LAN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LAN Settings

You can enable DHCP to dynamically allocate IP addresses to your client PCs, or configure filtering functions based on specific clients or protocols.The Router must have an IP address for the local network.

LAN IP

IP Address:	192 . 168 . 2 . 1
IP Subnet Mask:	255.255.255.0
DHCP Server:	● Enabled ○ Disabled

Lease Time	Forever

IP Address Pool

Start IP:	192 . 168 . 2 . 2
End IP:	192 . 168 . 2 . 254
Domain Name:	(optional)

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LAN IP

Use the LAN menu to configure the LAN IP address for the Gigaset Router and to enable the DHCP server for dynamic client address allocation.

Set the ***Lease Time***. The Lease Time describes the time period in which your computer will keep the assigned IP address unchanged. For home networks this may be set to ***Forever***, which means there is no time limit on the IP address lease.

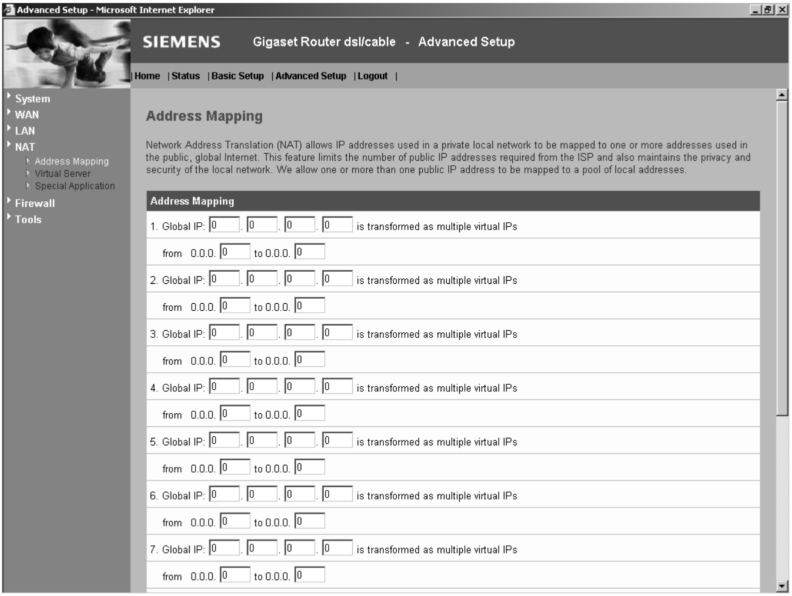
IP Address Pool

A dynamic IP start address may be specified by the user, e.g. 192.168.2.100 (default value). Once this start IP address has been assigned, IP addresses running from 192.168.2.100 to 192.168.2.199 will be part of the dynamic IP address pool. IP addresses from 192.168.2.2 to 192.168.2.99, and 192.168.2.200 to 192.168.2.254 will be available as static IP addresses.

Remember not to include the address of the Gigaset Router in the client address pool. Also remember to configure your client PCs for dynamic IP address allocation.

NAT

Address Mapping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Address Mapping

Network Address Translation (NAT) allows IP addresses used in a private local network to be mapped to one or more addresses used in the public, global Internet. This feature limits the number of public IP addresses required from the ISP and also maintains the privacy and security of the local network. We allow one or more than one public IP address to be mapped to a pool of local addresses.

Address Mapping

1. Global IP: 0 . 0 . 0 . 0 is transformed as multiple virtual IPs
from 0.0.0. 0 to 0.0.0. 0

2. Global IP: 0 . 0 . 0 . 0 is transformed as multiple virtual IPs
from 0.0.0. 0 to 0.0.0. 0

3. Global IP: 0 . 0 . 0 . 0 is transformed as multiple virtual IPs
from 0.0.0. 0 to 0.0.0. 0

4. Global IP: 0 . 0 . 0 . 0 is transformed as multiple virtual IPs
from 0.0.0. 0 to 0.0.0. 0

5. Global IP: 0 . 0 . 0 . 0 is transformed as multiple virtual IPs
from 0.0.0. 0 to 0.0.0. 0

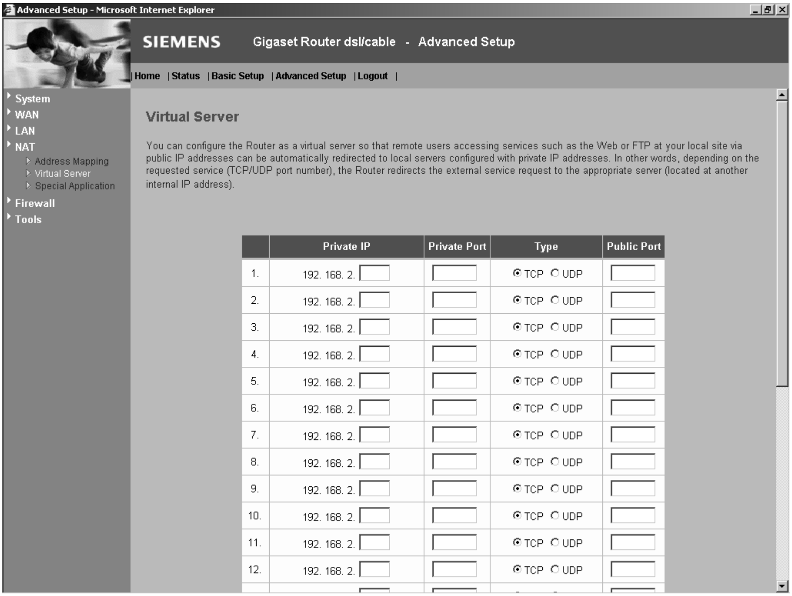
6. Global IP: 0 . 0 . 0 . 0 is transformed as multiple virtual IPs
from 0.0.0. 0 to 0.0.0. 0

7. Global IP: 0 . 0 . 0 . 0 is transformed as multiple virtual IPs
from 0.0.0. 0 to 0.0.0. 0

Allows one or more public IP addresses to be shared by multiple internal users. Enter the Public IP address you wish to share in the ***Global IP*** field. In the line below this enter a range of internal IPs that will share the global IP ***from***.

i	The address mapping feature makes sense only if the Gigaset Router gets one or more static IP addresses from the Internet Service Provider.

Virtual Server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Virtual Server

You can configure the Router as a virtual server so that remote users accessing services such as the Web or FTP at your local site via public IP addresses can be automatically redirected to local servers configured with private IP addresses. In other words, depending on the requested service (TCP/UDP port number), the Router redirects the external service request to the appropriate server (located at another internal IP address).

	Private IP	Private Port	Type	Public Port
1.	192. 168. 2. ☐	☐	● TCP ○ UDP	☐
2.	192. 168. 2. ☐	☐	● TCP ○ UDP	☐
3.	192. 168. 2. ☐	☐	● TCP ○ UDP	☐
4.	192. 168. 2. ☐	☐	● TCP ○ UDP	☐
5.	192. 168. 2. ☐	☐	● TCP ○ UDP	☐
6.	192. 168. 2. ☐	☐	● TCP ○ UDP	☐
7.	192. 168. 2. ☐	☐	● TCP ○ UDP	☐
8.	192. 168. 2. ☐	☐	● TCP ○ UDP	☐
9.	192. 168. 2. ☐	☐	● TCP ○ UDP	☐
10.	192. 168. 2. ☐	☐	● TCP ○ UDP	☐
11.	192. 168. 2. ☐	☐	● TCP ○ UDP	☐
12.	192. 168. 2. ☐	☐	● TCP ○ UDP	☐

If you configure the Gigaset Router as a virtual server, remote users accessing services such as web or FTP at your local site via public IP addresses can be automatically redirected to local servers configured with private IP addresses. In other words, depending on the requested service (TCP/UDP port number), the Gigaset Router redirects the external service request to the appropriate internal server and port.

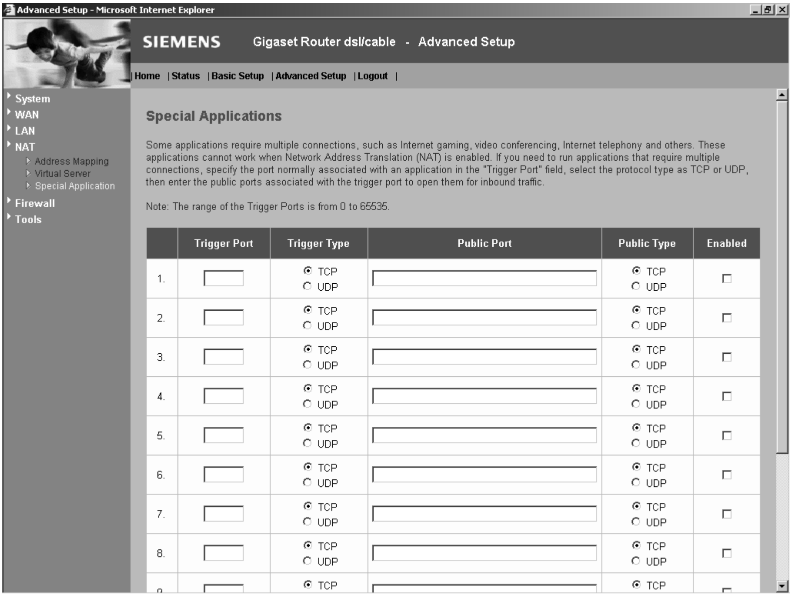
The WAN interface must have a fixed IP address to properly utilize this function. For example, if you set Type/Public Port to TCP/80 (HTTP or web) and the Private IP/Port to 192.168.2.2/8080, then all HTTP requests from outside users will be transferred to port 8080 on 192.168.2.2. Therefore, by just entering the IP Address provided by the ISP, Internet users can access the service you provide at the internal address and port to which the Gigaset Router redirects them.

Some of the more common TCP service ports include:

HTTP: 80, FTP: 21, Telnet: 23 and POP3: 110.

Enabling Special Applications

Some applications, such as Internet gaming, videoconferencing, Internet telephony and others, require multiple connections. These applications cannot work with Network Address Translation (NAT) enabled. If you need to run applications that require multiple connections, use the following screen to specify the additional public ports to be opened for each application.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Special Applications

Some applications require multiple connections, such as Internet gaming, video conferencing, Internet telephony and others. These applications cannot work when Network Address Translation (NAT) is enabled. If you need to run applications that require multiple connections, specify the port normally associated with an application in the "Trigger Port" field, select the protocol type as TCP or UDP, then enter the public ports associated with the trigger port to open them for inbound traffic.

Note: The range of the Trigger Ports is from 0 to 65535.

	Trigger Port	Trigger Type	Public Port	Public Type	Enabled
1.		● TCP ○ UDP		● TCP ○ UDP	☐
2.		● TCP ○ UDP		● TCP ○ UDP	☐
3.		● TCP ○ UDP		● TCP ○ UDP	☐
4.		● TCP ○ UDP		● TCP ○ UDP	☐
5.		● TCP ○ UDP		● TCP ○ UDP	☐
6.		● TCP ○ UDP		● TCP ○ UDP	☐
7.		● TCP ○ UDP		● TCP ○ UDP	☐
8.		● TCP ○ UDP		● TCP ○ UDP	☐
		● TCP		● TCP	

Specify the port normally associated with an application in the ***Trigger Port*** field, select the protocol type as TCP or UDP, then enter the public ports associated with the trigger port to open them for inbound traffic.

Firewall

The firewall does not significantly affect system performance, so we advise enabling it to protect your network users.

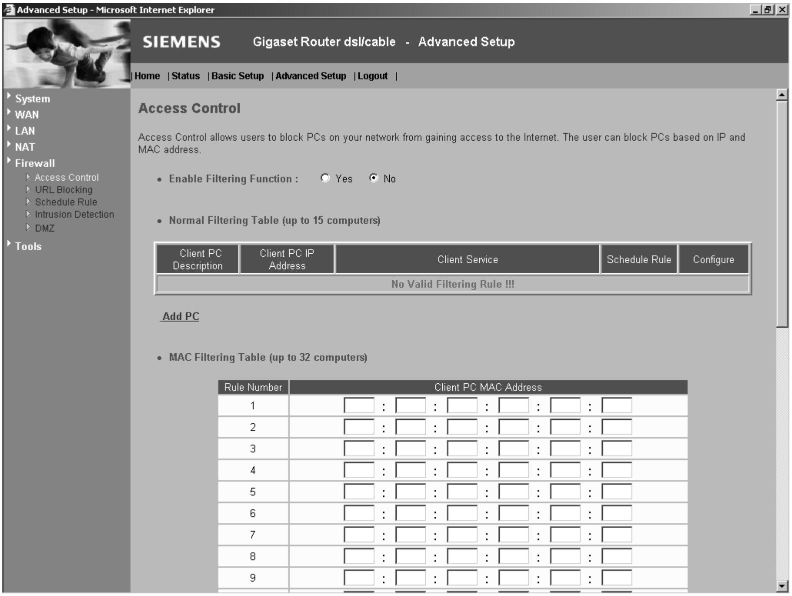
Only if your firewall is disabled, select ***Enable*** and click the ***APPLY*** button to open the Firewall submenus.

The Gigaset Router's firewall provides the following functions:

- Access control for the connected PCs
- URL Blocking
- Ping lock
- Filtering by schedule
- Filtering packets (TCP, FTP, H.323, TFTP)
- Alert notification by email
- DMZ (Demilitarized Zone).

> *i* When you select the ***Enable*** radio button of the ***Enable or disable Firewall module function*** field, be sure to press the ***APPLY*** button. Otherwise the settings will not be applied.

Access Control



Access Control

Access Control allows users to block PCs on your network from gaining access to the Internet. The user can block PCs based on IP and MAC address.

- Enable Filtering Function : ○ Yes ● No
- Normal Filtering Table (up to 15 computers)

Client PC Description	Client PC IP Address	Client Service	Schedule Rule	Configure
No Valid Filtering Rule !!!				

- MAC Filtering Table (up to 32 computers)

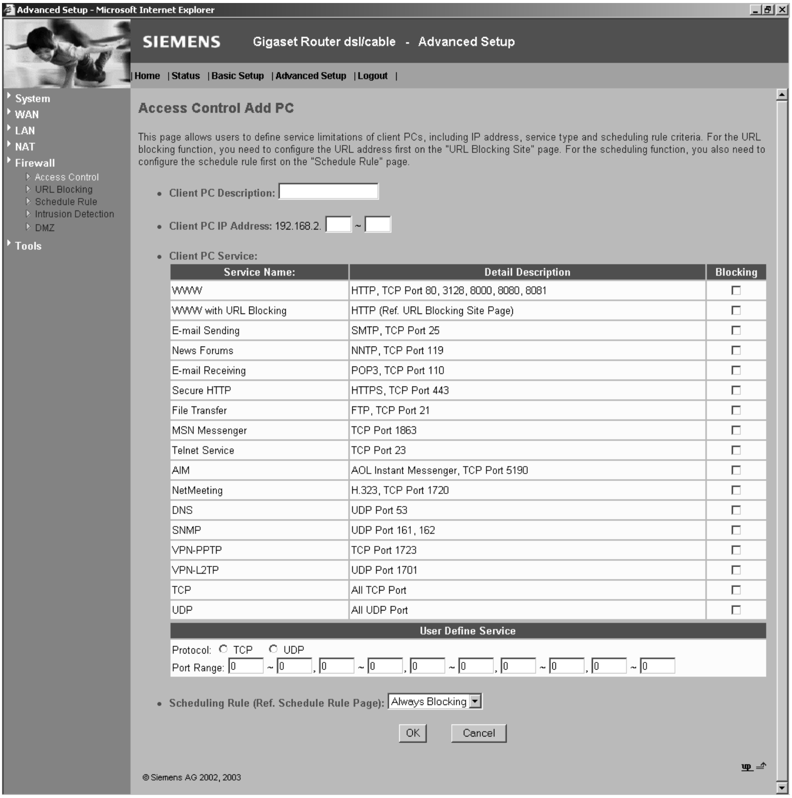
Rule Number	Client PC MAC Address
1	: : : : :
2	: : : : :
3	: : : : :
4	: : : : :
5	: : : : :
6	: : : : :
7	: : : : :
8	: : : : :
9	: : : : :

Using this option allows you to specify different privileges for the client PCs.

The following items are included in the *Access Control* screen:

Normal Filtering Table	Displays the IP address and filtering status of the connected client PC
MAC Filtering Table	Displays the MAC address of the client PC
Remote Management	Allows you to set the IP address of an administrator for remote management

Click on ***Add PC*** and define the appropriate settings for client PC services (as shown in the following screen).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Access Control Add PC

This page allows users to define service limitations of client PCs, including IP address, service type and scheduling rule criteria. For the URL blocking function, you need to configure the URL address first on the "URL Blocking Site" page. For the scheduling function, you also need to configure the schedule rule first on the "Schedule Rule" page.

- Client PC Description:
- Client PC IP Address: 192.168.2. ~
- Client PC Service:

Service Name:	Detail Description	Blocking
WWW	HTTP, TCP Port 80, 3128, 8000, 8080, 8081	☐
WWW with URL Blocking	HTTP (Ref. URL Blocking Site Page)	☐
E-mail Sending	SMTP, TCP Port 25	☐
News Forums	NNTP, TCP Port 119	☐
E-mail Receiving	POP3, TCP Port 110	☐
Secure HTTP	HTTPS, TCP Port 443	☐
File Transfer	FTP, TCP Port 21	☐
MSN Messenger	TCP Port 1863	☐
Telnet Service	TCP Port 23	☐
AIM	AOL Instant Messenger, TCP Port 5190	☐
NetMeeting	H.323, TCP Port 1720	☐
DNS	UDP Port 53	☐
SNMP	UDP Port 161, 162	☐
VPN-PPTP	TCP Port 1723	☐
VPN-L2TP	UDP Port 1701	☐
TCP	All TCP Port	☐
UDP	All UDP Port	☐

User Define Service

Protocol: ○ TCP ○ UDP

Port Range: 0 ~ 0 , 0 ~ 0 , 0 ~ 0 , 0 ~ 0 , 0 ~ 0

- Scheduling Rule (Ref. Schedule Rule Page): Always Blocking

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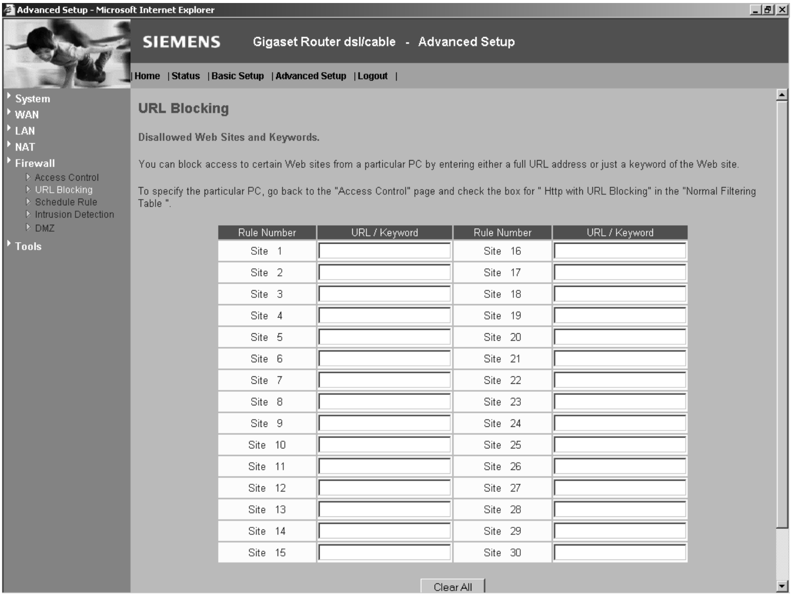
URL Blocking



URL Blocking

Disallowed Web Sites and Keywords.

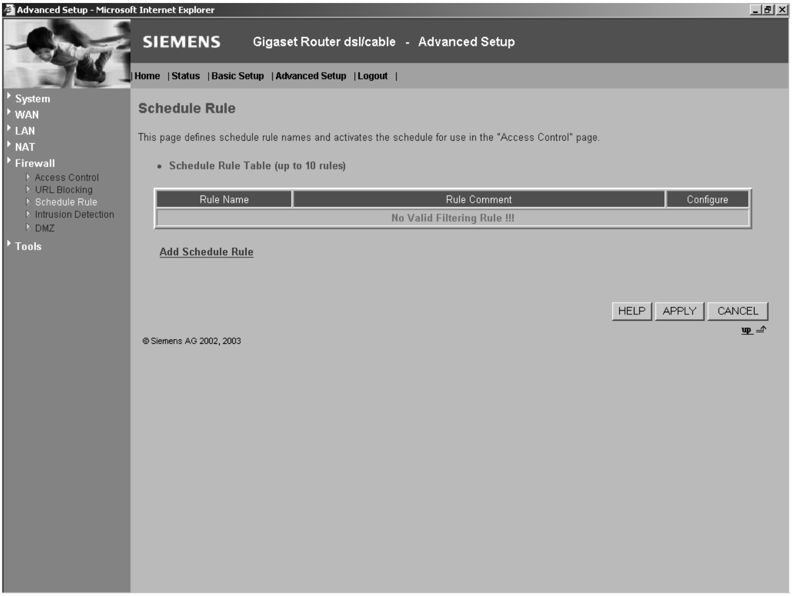
You can block access to certain Web sites from a particular PC by entering either a full URL address or just a keyword of the Web site.

To specify the particular PC, go back to the "Access Control" page and check the box for " Http with URL Blocking" in the "Normal Filtering Table ".

Rule Number	URL / Keyword	Rule Number	URL / Keyword
Site 1		Site 16	
Site 2		Site 17	
Site 3		Site 18	
Site 4		Site 19	
Site 5		Site 20	
Site 6		Site 21	
Site 7		Site 22	
Site 8		Site 23	
Site 9		Site 24	
Site 10		Site 25	
Site 11		Site 26	
Site 12		Site 27	
Site 13		Site 28	
Site 14		Site 29	
Site 15		Site 30	

Use the above screen to block access to the Web sites specified in the table.

Schedule Rule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Schedule Rule

This page defines schedule rule names and activates the schedule for use in the "Access Control" page.

- Schedule Rule Table (up to 10 rules)

Rule Name	Rule Comment	Configure
No Valid Filtering Rule !!!		

Add Schedule Rule

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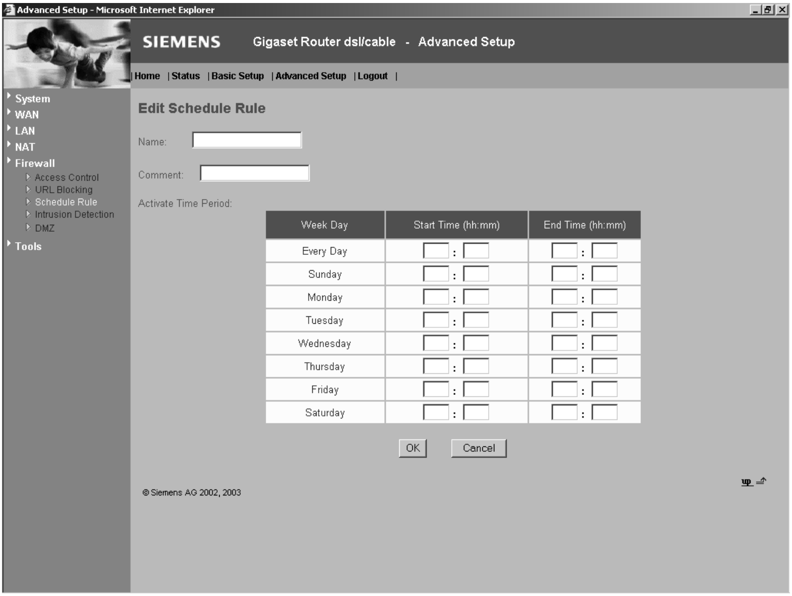
You can filter Internet access for local clients based on the ***Rule Name***, and time of day.

1. Click on ***Add Schedule Rule***.
2. Define the appropriate settings for a schedule rule (as shown in the following screen).

3. Click ***OK*** and then the ***APPLY*** button to save your settings (as shown on previous page).



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Edit Schedule Rule

Name:

Comment:

Activate Time Period:

Week Day	Start Time (hh:mm)	End Time (hh:mm)
Every Day	:	:
Sunday	:	:
Monday	:	:
Tuesday	:	:
Wednesday	:	:
Thursday	:	:
Friday	:	:
Saturday	:	:

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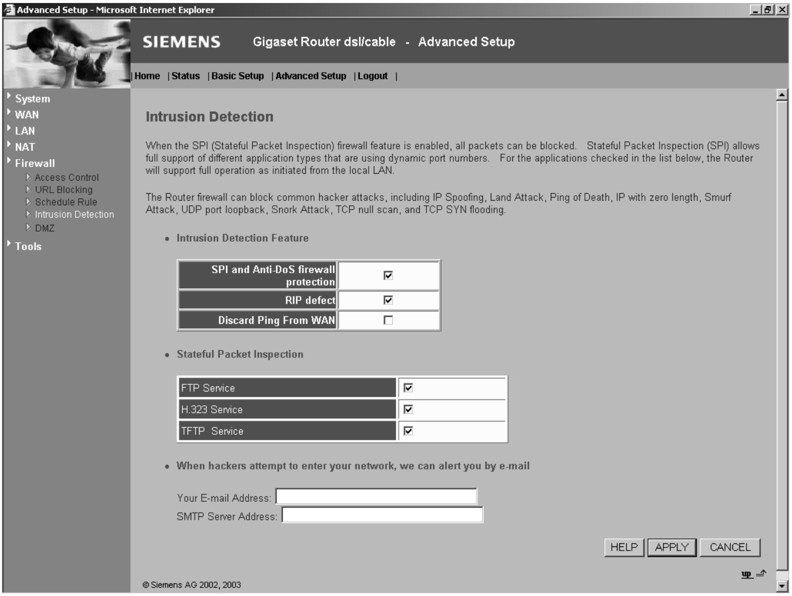
Intrusion Detection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Intrusion Detection

When the SPI (Stateful Packet Inspection) firewall feature is enabled, all packets can be blocked. Stateful Packet Inspection (SPI) allows full support of different application types that are using dynamic port numbers. For the applications checked in the list below, the Router will support full operation as initiated from the local LAN.

The Router firewall can block common hacker attacks, including IP Spoofing, Land Attack, Ping of Death, IP with zero length, Smurf Attack, UDP port loopback, Snork Attack, TCP null scan, and TCP SYN flooding.

- Intrusion Detection Feature

SPI and Anti-DoS firewall protection	☑
RIP defect	☑
Discard Ping From WAN	☐

- Stateful Packet Inspection

FTP Service	☑
H.323 Service	☑
TFTP Service	☑

- When hackers attempt to enter your network, we can alert you by e-mail

Your E-mail Address:
SMTP Server Address:

The Intrusion Detection feature of the Gigaset Router limits the access of incoming traffic from the WAN port. When the SPI feature is turned on, all incoming packets will be blocked unless certain types of traffic are checked by the users.

When the user checks certain types of traffic, only that particular type of traffic initiated from the Internal LAN will be allowed. For example, if the user only checks ***FTP service*** from the ***Stateful Packet Inspection***, all incoming traffic will be blocked except the FTP connections initiated from the local LAN.

Stateful Packet Inspection	This option allows you to select different application types that are using dynamic port numbers. If you need to use the Stateful Packet Inspection (SPI) for blocking packets, check the radio button in the ***Enable SPI and Anti-DoS firewall protection*** field and then check the inspection type that you need, such as ***Packet Fragmentation***, ***TCP Connection***, ***UDP Session***, ***FTP service***, ***H.323 Service*** and ***TFTP Service***.

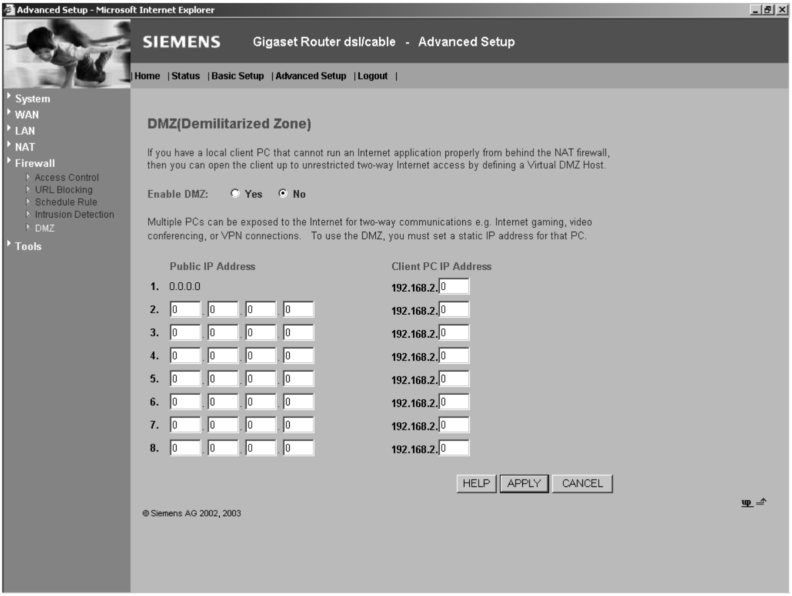
Hacker Prevention Feature

The Gigaset Router firewall inspects packets at the application layer, and maintains TCP and UDP session information, including timeouts and number of active sessions, providing the ability to detect and prevent certain types of network attacks.

Note: The firewall does not significantly affect system performance, so we advise enabling the prevention features to protect your network users.

When hackers attempt to enter your network, we can alert you by e-mail	Enter your E-mail address via which the Gigaset Router can alert you in case of hacker access. Specify your E-mail servers and address of SMTP server.

DMZ (Demilitarized Zone)


Advanced Setup - Microsoft Internet Explorer
SIEMENS
Gigaset Router dsl/cable - Advanced Setup
|Home |Status |Basic Setup |Advanced Setup |Logout |
System
WAN
LAN
NAT
Firewall
Access Control
URL Blocking
Schedule Rule
Intrusion Detection
DMZ
Tools
HELP
APPLY
CANCEL
up

DMZ(Demilitarized Zone)

If you have a local client PC that cannot run an Internet application properly from behind the NAT firewall, then you can open the client up to unrestricted two-way Internet access by defining a Virtual DMZ Host.

Enable DMZ: ○ Yes ● No

Multiple PCs can be exposed to the Internet for two-way communications e.g. Internet gaming, video conferencing, or VPN connections. To use the DMZ, you must set a static IP address for that PC.

	Public IP Address	Client PC IP Address
1.	0.0.0.0	192.168.2.0
2.	0 . 0 . 0 . 0	192.168.2.0
3.	0 . 0 . 0 . 0	192.168.2.0
4.	0 . 0 . 0 . 0	192.168.2.0
5.	0 . 0 . 0 . 0	192.168.2.0
6.	0 . 0 . 0 . 0	192.168.2.0
7.	0 . 0 . 0 . 0	192.168.2.0
8.	0 . 0 . 0 . 0	192.168.2.0

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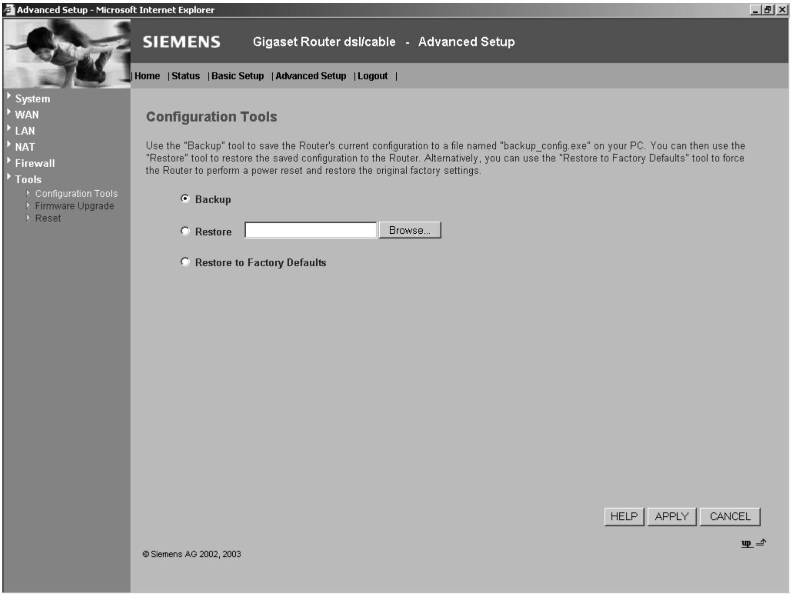
If you have a client PC that cannot run an Internet application properly from behind the firewall, then you can open the client up to unrestricted two-way Internet access. Enter the IP address of a DMZ host to this screen. Adding a client to the DMZ (Demilitarized Zone) may expose your local network to a variety of security risks, so only use this option as a last resort.

Tools

Use the ***Tools*** menu to back up the current configuration, restore a previously saved configuration, restore factory settings, update firmware and reset the Gigaset Router.

Configuration Tools


Advanced Setup - Microsoft Internet Explorer
SIEMENS
Gigaset Router dsl/cable - Advanced Setup
|Home |Status |Basic Setup |Advanced Setup |Logout |
System
WAN
LAN
NAT
Firewall
Tools
Configuration Tools
Firmware Upgrade
Reset
Browse...
HELP
APPLY
CANCEL
up
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Configuration Tools

Use the "Backup" tool to save the Router's current configuration to a file named "backup_config.exe" on your PC. You can then use the "Restore" tool to restore the saved configuration to the Router. Alternatively, you can use the "Restore to Factory Defaults" tool to force the Router to perform a power reset and restore the original factory settings.

● Backup

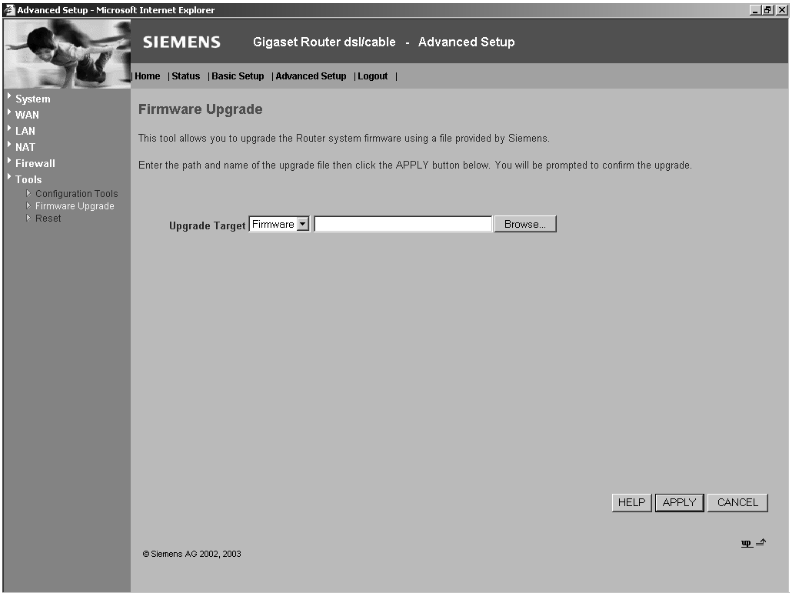
○ Restore

○ Restore to Factory Defaults

Choose a function and click ***APPLY***.

Backup allows you to save the Gigaset Router’s configuration to a file. You can then check ***Restore*** to restore the saved backup configuration file. ***Restore to factory defaults*** resets the Gigaset Router to the original settings.

Firmware Upgrade


Advanced Setup - Microsoft Internet Explorer
SIEMENS
Gigaset Router dsl/cable - Advanced Setup
|Home |Status |Basic Setup |Advanced Setup |Logout |
System
WAN
LAN
NAT
Firewall
Tools
Configuration Tools
Firmware Upgrade
Reset
Browse...
HELP
APPLY
CANCEL
up

Firmware Upgrade

This tool allows you to upgrade the Router system firmware using a file provided by Siemens.

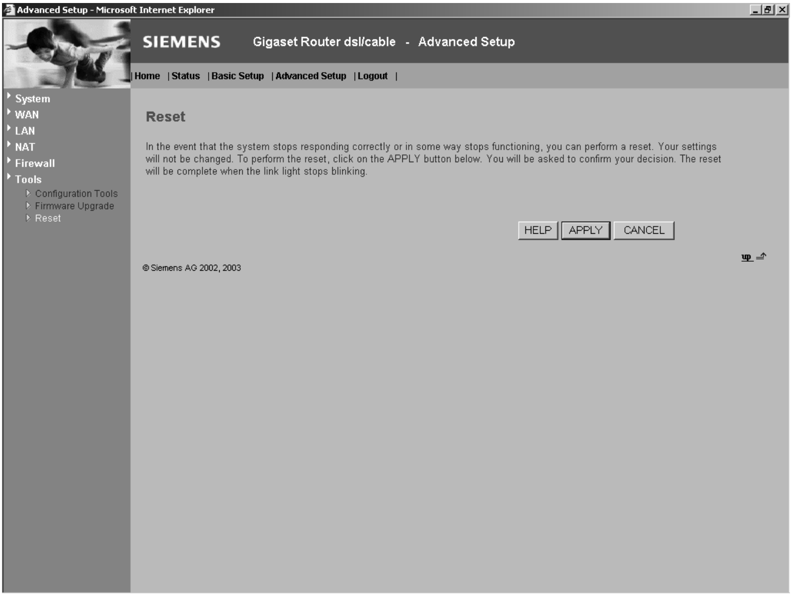
Enter the path and name of the upgrade file then click the APPLY button below. You will be prompted to confirm the upgrade.

Upgrade Target: Firmware

© Siemens AG 2002, 2003

This tool permits easy downloading of the latest firmware to the router. Download the upgrade file from the Siemens website (www.my-siemens.com/router) and save it to your hard drive. Browse for the file and then click ***APPLY***. Check the ***Status*** page ***Information*** section to confirm that the upgrade process was successful.

Reset


Advanced Setup - Microsoft Internet Explorer
SIEMENS
Gigaset Router dsl/cable - Advanced Setup
|Home |Status |Basic Setup |Advanced Setup |Logout |
System
WAN
LAN
NAT
Firewall
Tools
Configuration Tools
Firmware Upgrade
Reset
HELP
APPLY
CANCEL
up

Reset

In the event that the system stops responding correctly or in some way stops functioning, you can perform a reset. Your settings will not be changed. To perform the reset, click on the APPLY button below. You will be asked to confirm your decision. The reset will be complete when the link light stops blinking.

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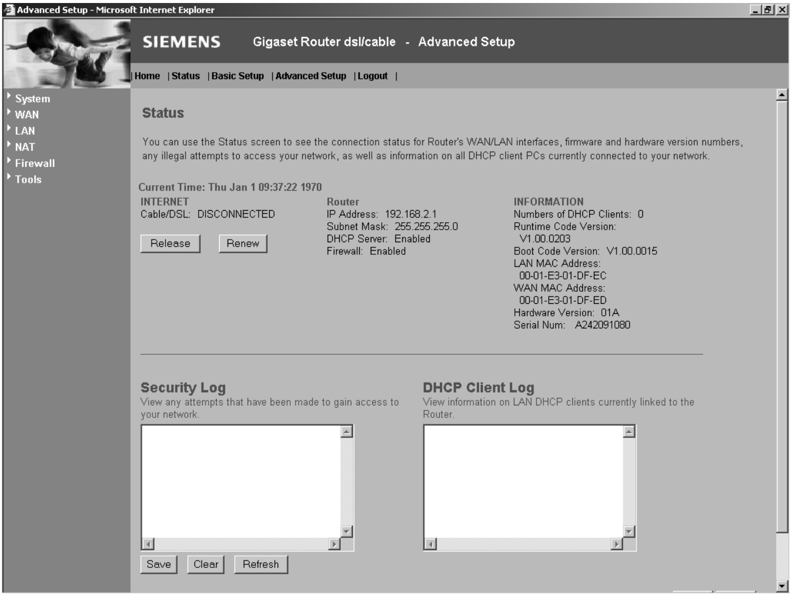
Click ***APPLY*** to reset the Gigaset Router. The reset will be complete when the power LED stops blinking.

i	If you use the Reset button on the rear panel, the Gigaset Router performs a power reset. If the button is held depressed for over 5 seconds, all the LEDs will illuminate and the factory settings will be restored. **Warning**: The reset will set **all** data to the factory defaults.

Status

The ***Status*** screen displays WAN/LAN connection status, firmware, and hardware version numbers, illegal attempts to access your network, as well as information on DHCP clients connected to your network.


Advanced Setup - Microsoft Internet Explorer
SIEMENS
Gigaset Router dsl/cable - Advanced Setup
Home | Status | Basic Setup | Advanced Setup | Logout |
System
WAN
LAN
NAT
Firewall
Tools
Release
Renew
Save
Clear
Refresh

Status

You can use the Status screen to see the connection status for Router's WAN/LAN interfaces, firmware and hardware version numbers, any illegal attempts to access your network, as well as information on all DHCP client PCs currently connected to your network.

Current Time: Thu Jan 1 09:37:22 1970

INTERNET
Cable/DSL: DISCONNECTED

Router
IP Address: 192.168.2.1
Subnet Mask: 255.255.255.0
DHCP Server: Enabled
Firewall: Enabled

INFORMATION
Numbers of DHCP Clients: 0
Runtime Code Version: V1.00.0203
Boot Code Version: V1.00.0015
LAN MAC Address: 00-01-E3-01-DF-EC
WAN MAC Address: 00-01-E3-01-DF-ED
Hardware Version: 01A
Serial Num: A242091080

Security Log
View any attempts that have been made to gain access to your network.

DHCP Client Log
View information on LAN DHCP clients currently linked to the Router.

The following items are included on this screen:

Disconnect	Disconnects an existing connection to the WAN.
Connect	Establishes a connection to the WAN.

INTERNET	Displays WAN connection type and status.
GATEWAY	Displays system IP settings, as well as DHCP and Firewall status.
INFORMATION	Displays the number of attached clients, the firmware versions, the physical MAC address for each media interface, as well as the hardware version and serial number.
Security Log	Displays illegal attempts to access your network.
Save	Click on this button to save a security log file.
Clear	Click on this button to delete the access log.
Refresh	Click on this button to refresh the screen.
DHCP Client Log	Displays information on all DHCP clients on your network.

Configuring Client TCP/IP

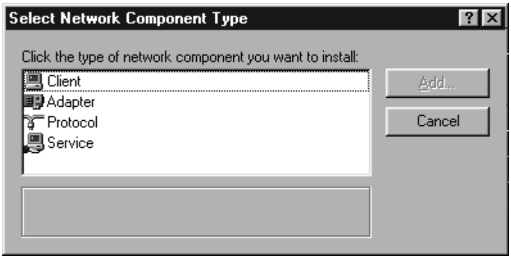
If you have not previously installed the TCP/IP protocols on your client PCs, refer to the following section. If you need information on how to configure a TCP/IP address on a PC, refer to "Setting up TCP/IP to Work with the Gigaset Router" on page 50.

Please note that the screenshots here may not exactly match your system.

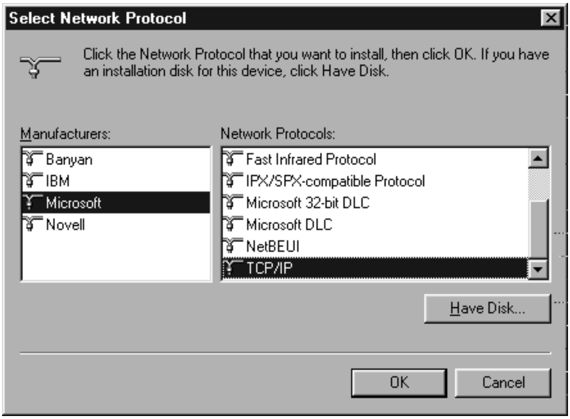
Installing TCP/IP

Windows 95/98/ME

1. Click ***Start*** - ***Settings*** - ***Control Panel***.
2. Double-click the ***Network*** icon and select the ***Configuration*** tab in the ***Network*** window.
3. Click the ***Add*** button.
4. Double-click ***Protocol***.


Select Network Component Type
?
Click the type of network component you want to install:
Client
Adapter
Protocol
Service
Add...
Cancel

5. Select ***Microsoft*** in the manufacturers list. Select ***TCP/IP*** in the ***Network Protocols*** list. Click the ***OK*** button to return to the ***Network*** window.



Select Network Protocol

Click the Network Protocol that you want to install, then click OK. If you have an installation disk for this device, click Have Disk.

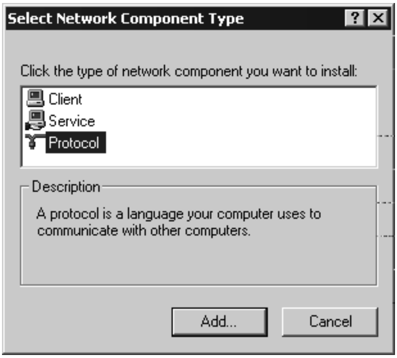
Manufacturers:
- Banyan
- IBM
- Microsoft
- Novell

Network Protocols:
- Fast Infrared Protocol
- IPX/SPX-compatible Protocol
- Microsoft 32-bit DLC
- Microsoft DLC
- NetBEUI
- TCP/IP

6. The TCP/IP protocol will be listed in the ***Network*** window. Click ***OK*** to complete the installation procedure and restart your PC to enable the TCP/IP protocols. The operating system may prompt you to restart your system. Click ***Yes*** and the computer will shut down and restart.

Windows 2000

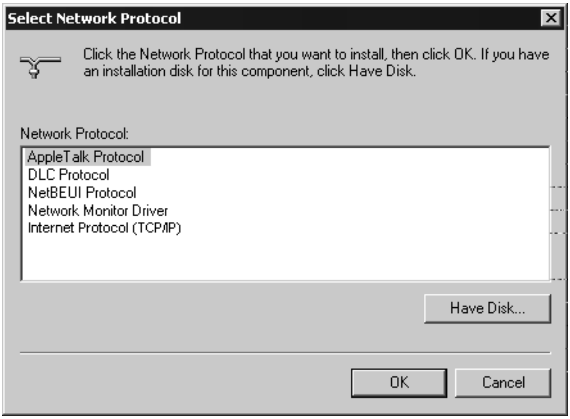
1. Click the ***Start*** button and choose ***Settings***, then click ***Control Panel***.
2. Double click the ***Network and Dial-up Connections*** icon, then ***Local Area Connection*** icon, and press the ***Properties*** button in the ***General*** tab.
3. Click the ***Install*** button to add the network component to your PC.
4. Double click on ***Protocol*** to add the TCP/IP protocol.



Click the type of network component you want to install:

A protocol is a language your computer uses to communicate with other computers.

5. Choose ***Internet Protocol (TCP/IP)*** in the ***Network Protocol*** list. Click the ***OK*** button to return to the ***Network*** window.



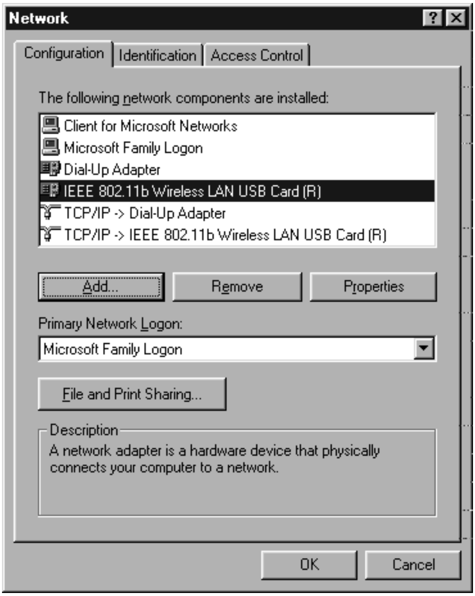
Click the Network Protocol that you want to install, then click OK. If you have an installation disk for this component, click Have Disk.

6. The TCP/IP protocol will be listed in the ***Network*** window. Click ***OK*** to complete the install procedure.

Setting up TCP/IP to Work with the Gigaset Router

Windows 95/98/ME

1. Click ***Start*** - ***Settings*** - ***Control Panel***.
2. Double-click the ***Network*** icon. Select the ***TCP/IP*** line that has been assigned to your network card on the ***Configuration*** tab of the ***Network*** window.
3. Choose the wireless network adapter.



The following network components are installed:

- Client for Microsoft Networks
- Microsoft Family Logon
- Dial-Up Adapter
- IEEE 802.11b Wireless LAN USB Card (R)
- TCP/IP -> Dial-Up Adapter
- TCP/IP -> IEEE 802.11b Wireless LAN USB Card (R)

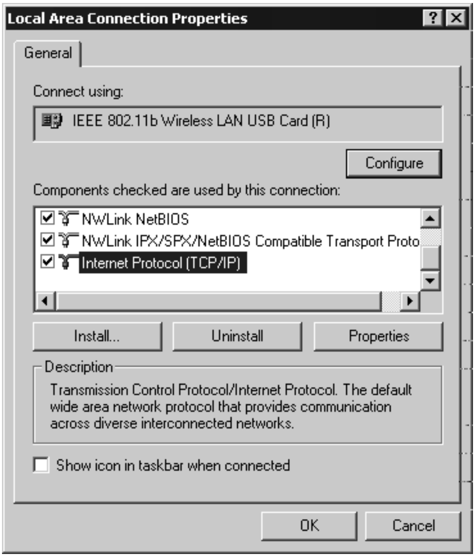
Primary Network Logon: Microsoft Family Logon

Description
A network adapter is a hardware device that physically connects your computer to a network.

4. Click the ***Properties*** button.
5. You may dynamically assign TCP/IP address settings to a client, or you can manually configure a client with address settings to meet your specific network requirements. (Note that the default IP address of the Gigaset Router is 192.168.2.1.)

Windows 2000

1. Click the ***Start*** button and choose ***Settings***, then click ***Control Panel***.
2. Double click the ***Network and Dial-up Connections*** icon, then ***Local Area Connection*** icon, and press the ***Properties*** button in the ***General*** tab.
3. Select the TCP/IP protocol in the ***Local Area Connection Properties*** window.
4. Click the ***Properties*** button to set the TCP/IP protocol for the Gigaset Router.



Connect using:

IEEE 802.11b Wireless LAN USB Card (R)

Components checked are used by this connection:

☑ NWLink NetBIOS
☑ NWLink IPX/SPX/NetBIOS Compatible Transport Proto
☑ Internet Protocol (TCP/IP)

Description

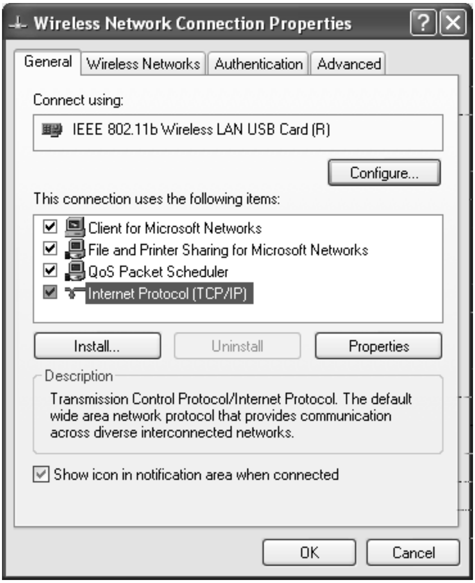
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.

☐ Show icon in taskbar when connected

5. You can dynamically assign TCP/IP address settings to a client, or you can manually configure a client with address settings to meet your specific network requirements. (Note that the default IP address of the Gigaset Router is 192.168.2.1.)

Windows XP

1. Click the ***start*** button and choose ***Control Panel***.
2. Select the ***Network and Internet Connections*** icon, then click the ***Network Connections*** icon.
3. Then double-click on the LAN connection with which you are connected to the router.
4. Click the ***Properties*** button in the ***General*** tab.
5. Select ***Internet Protocol (TCP/IP)*** in the ***Local Area Connection Properties*** window.
6. Click the ***Properties*** button to set the TCP/IP protocol for the Gigaset Router.



Connect using:
IEEE 802.11b Wireless LAN USB Card (R)

This connection uses the following items:
☑ Client for Microsoft Networks
☑ File and Printer Sharing for Microsoft Networks
☑ QoS Packet Scheduler
☑ Internet Protocol (TCP/IP)

Description
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.

☑ Show icon in notification area when connected

7. You can dynamically assign TCP/IP address settings to a client, or you can manually configure a client with address settings to meet your specific network requirements. (Note that the default IP address of the Gigaset Router is 192.168.2.1.)

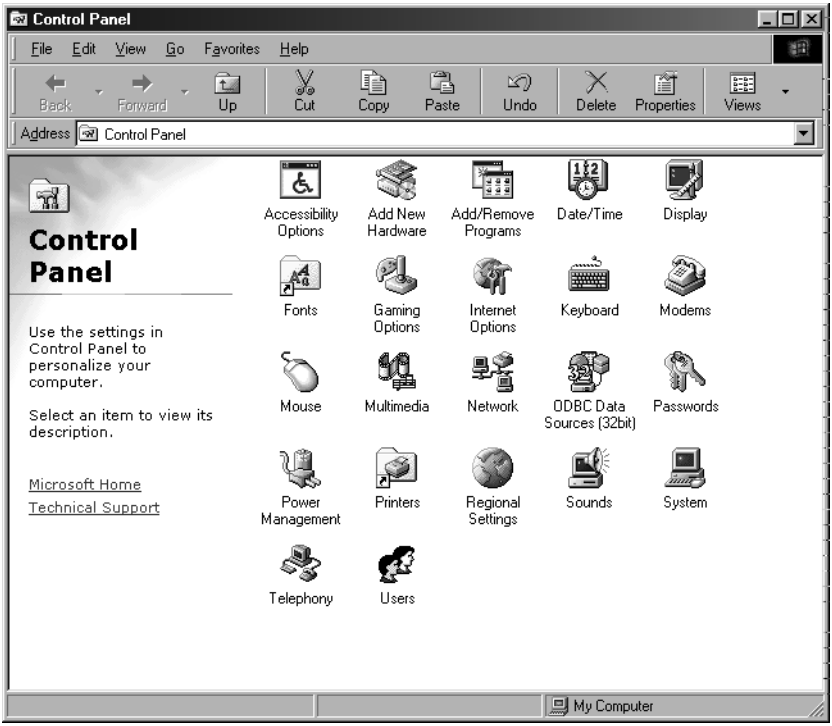
Configuring your Computer with Windows 95/98/ME

You may find that the instructions here do not exactly match your version of Windows. This is because these steps and screenshots were created in Windows 98. Windows 95 and Windows Millennium Edition are very similar, but not identical, to Windows 98.

Step 1. Configure TCP/IP Settings

After you have completed the hardware setup by connecting your devices, you need to configure the computer to connect to the Gigaset Router. You need to determine how your ISP issues your IP address. Many ISPs issue these numbers automatically using a networking technology known as Dynamic Host Control Protocol, or DHCP. Other ISPs will specify your IP address and associated numbers, which you must enter manually. This is also known as a static IP address. How your ISP assigns your IP address determines how you will configure your computer.

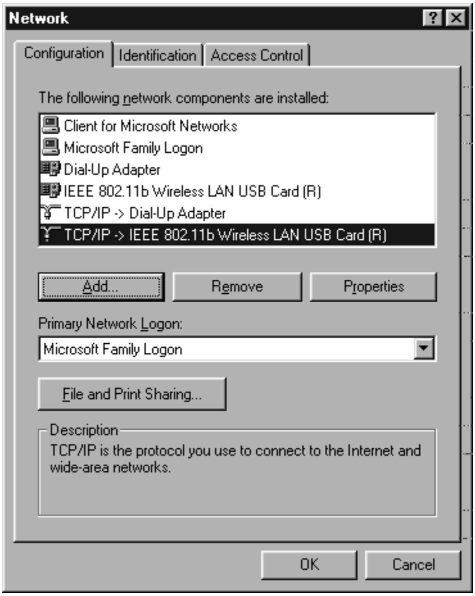
1. From the Windows desktop, click ***Start*** - ***Settings*** - ***Control Panel***.
2. Double-click the ***Network*** icon.



Use the settings in Control Panel to personalize your computer.

Select an item to view its description.

3. On the ***Network*** window ***Configuration*** tab, double-click the ***TCP/IP*** entry for your network card.



The following network components are installed:

- Client for Microsoft Networks
- Microsoft Family Logon
- Dial-Up Adapter
- IEEE 802.11b Wireless LAN USB Card (R)
- TCP/IP -> Dial-Up Adapter
- TCP/IP -> IEEE 802.11b Wireless LAN USB Card (R)

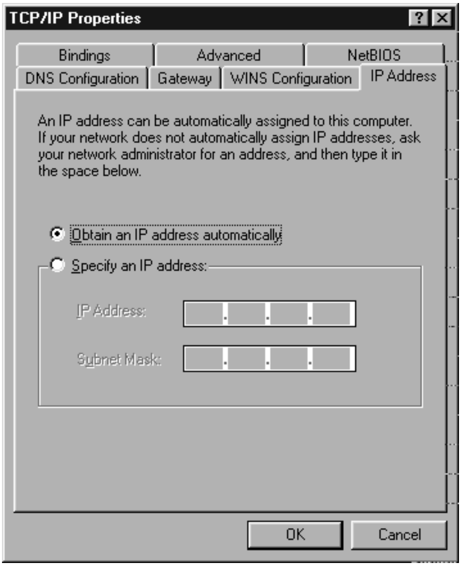
Primary Network Logon: Microsoft Family Logon

Description

TCP/IP is the protocol you use to connect to the Internet and wide-area networks.

4. Click the ***IP Address*** tab.

   If ***Obtain an IP address automatically*** is already checked, your computer is already configured for DHCP. Click ***Cancel*** to close each window, and skip to "Step 2. Disable HTTP Proxy" on page 57.



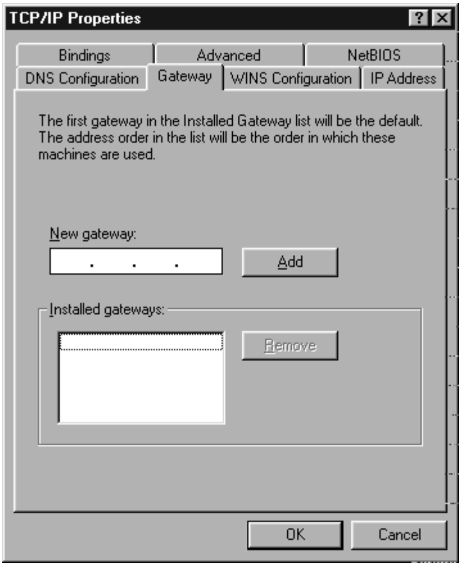
An IP address can be automatically assigned to this computer. If your network does not automatically assign IP addresses, ask your network administrator for an address, and then type it in the space below.

● Obtain an IP address automatically

○ Specify an IP address:

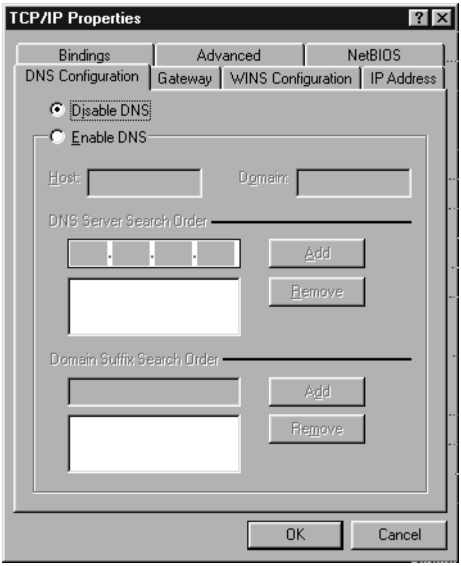
5. Make a note of the current IP Address and Subnet Mask.

6. Click the ***Gateway*** tab and record the numbers listed under ***Installed gateways***.



The first gateway in the Installed Gateway list will be the default. The address order in the list will be the order in which these machines are used.

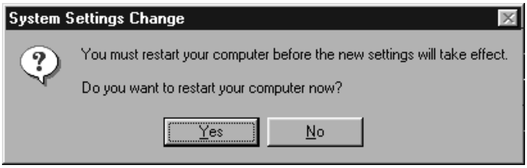
7. Click the ***DNS Configuration*** tab. Record the DNS servers listed under ***DNS Server Search Order***.



● Disable DNS

○ Enable DNS

8. Click the ***IP Address*** tab and then check ***Obtain an IP address automatically***. Click ***OK***.
9. Windows may need your Windows 95/98/ME CD to copy some files. After it finishes copying, it will then prompt you to restart your system. Click ***Yes*** and the computer will shut down and restart.



You must restart your computer before the new settings will take effect.

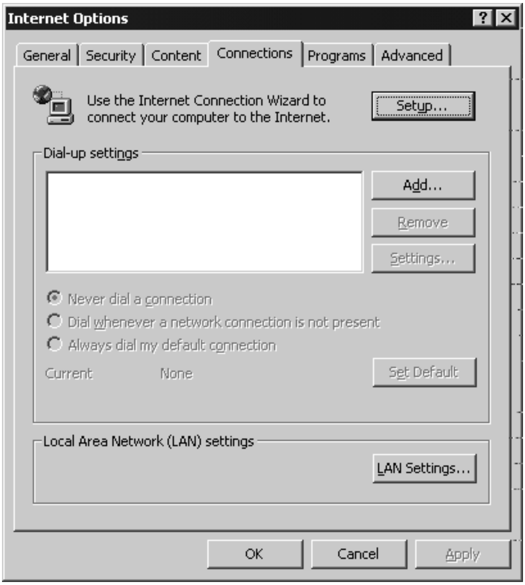
Do you want to restart your computer now?

Step 2. Disable HTTP Proxy

You will need to verify that the "HTTP Proxy" feature of your web browser is disabled. This is so that your web browser will be able to view the configuration pages inside your Gigaset Router. The following steps are for Internet Explorer and for Netscape. Determine which browser you use and follow the appropriate steps.

Internet Explorer:

1. Open Internet Explorer. Click ***Tools*** - ***Internet Options***.
2. In the ***Internet Options*** window, click the ***Connections*** tab. Click the ***LAN Settings*** button.

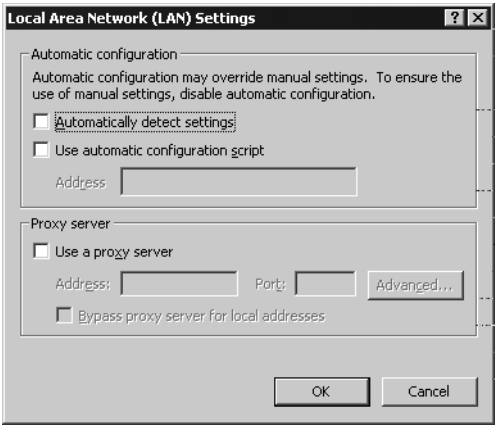


Use the Internet Connection Wizard to connect your computer to the Internet.

● Never dial a connection
○ Dial whenever a network connection is not present
○ Always dial my default connection

Current None

3. Clear all the check boxes and click ***OK***. Click ***OK*** again to close the ***Internet Options*** window.



Automatic configuration may override manual settings. To ensure the use of manual settings, disable automatic configuration.

☐ Automatically detect settings
☐ Use automatic configuration script
Address

☐ Use a proxy server
Address: Port:
☐ Bypass proxy server for local addresses

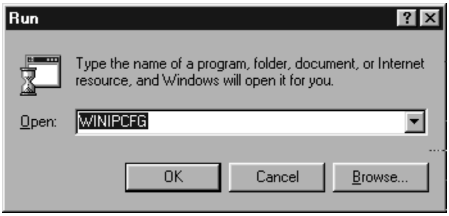
Netscape:

1. Open Netscape. Click ***Edit***, then click ***Preferences***.
2. In the ***Preferences*** window, under ***Category***, double-click ***Advanced***, then click ***Proxies***. Check ***Direct connection to the Internet***. Click ***OK***.
3. Repeat these steps for each Windows 95/98/ME computer connected to your Gigaset Router.

Step 3. Obtain IP Settings from your Gigaset Router

Now that you have configured your computer to connect to your Gigaset Router, it needs to obtain new network settings. By releasing old IP settings and renewing them with settings from your Gigaset Router, you will also verify that you have configured your computer correctly.

1. Click ***Start*** - ***Run***.
2. Type `WINIPCFG` and click ***OK***.

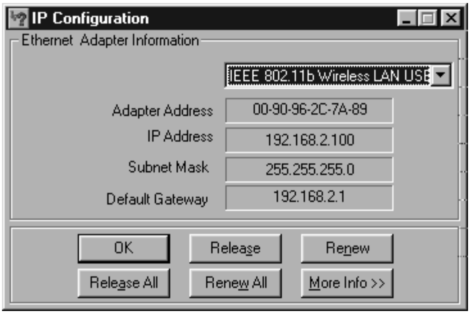


Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.

Open: WINIPCFG

It may take a minute or two for the ***IP Configuration*** window to appear.

3. From the dropdown menu, select your network card. Click ***Release*** and then ***Renew***. Verify that your IP address is now 192.168.2.x (where x means 2-254), your ***Subnet Mask*** is 255.255.255.0 and your ***Default Gateway*** is 192.168. 2.1. These values confirm that your Gigaset Router is functioning. Click ***OK*** to close the ***IP Configuration*** window.



Ethernet Adapter Information

IEEE 802.11b Wireless LAN USB

Adapter Address: 00-90-96-2C-7A-89

IP Address: 192.168.2.100

Subnet Mask: 255.255.255.0

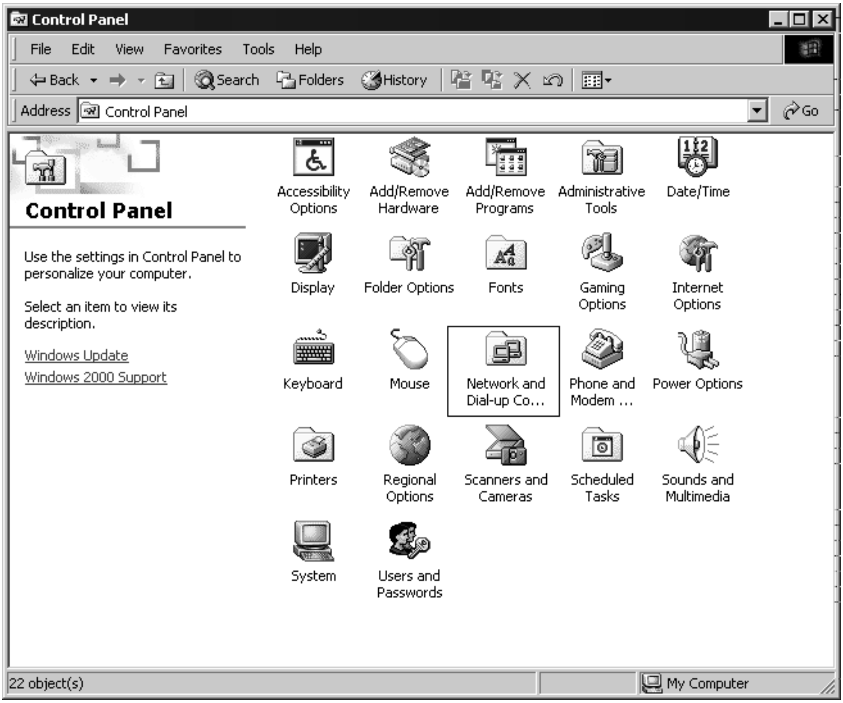
Default Gateway: 192.168.2.1

Configuring your Computer in Windows 2000

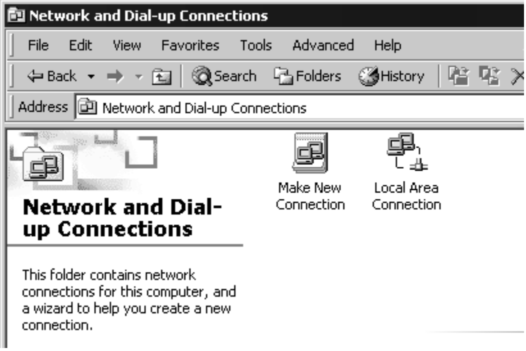
Step 1. Configure TCP/IP Settings

After you have completed the hardware setup, you need to configure your computer to connect to the Gigaset Router. You also need to determine how your ISP issues your IP address. Many ISPs issue these addresses automatically, using a networking technology known as Dynamic Host Configuration Protocol, or DHCP. Other ISPs will specify your IP address and associated numbers, which you must enter manually. This is also known as a static IP address. How your ISP assigns your IP address determines how you will configure your computer.

1. From the Windows desktop, click ***Start*** - ***Settings*** - ***Control Panel***.
2. Double-click the ***Network and Dial-up Connections*** icon.



3. Double-click the icon that corresponds to the connection to your Gigaset Router.

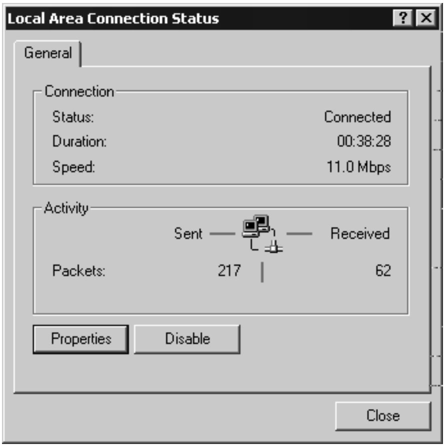


Network and Dial-up Connections
File Edit View Favorites Tools Advanced Help
Back Search Folders History
Address Network and Dial-up Connections
Make New Connection
Local Area Connection

Network and Dial-up Connections

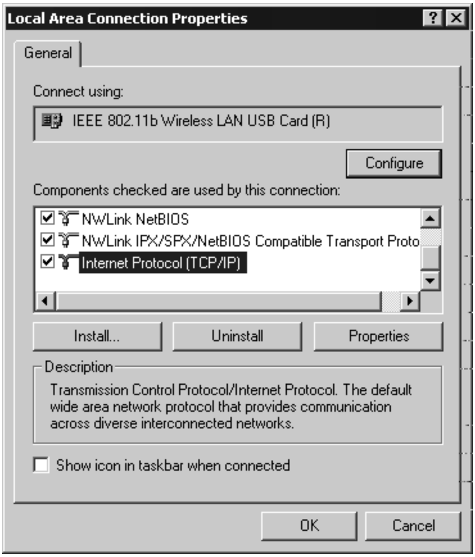
This folder contains network connections for this computer, and a wizard to help you create a new connection.

4. Click ***Properties***.



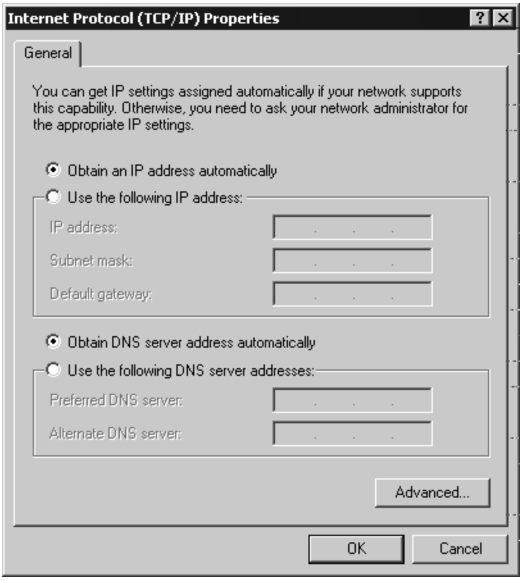
Status: Connected
Duration: 00:38:28
Speed: 11.0 Mbps
Packets: 217 62

5. Double-click ***Internet Protocol (TCP/IP)***.



Local Area Connection Properties
General
Connect using:
IEEE 802.11b Wireless LAN USB Card (R)
Configure
Components checked are used by this connection:
☑ NWLink NetBIOS
☑ NWLink IPX/SPX/NetBIOS Compatible Transport Proto
☑ Internet Protocol (TCP/IP)
Install...
Uninstall
Properties
Description
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.
☐ Show icon in taskbar when connected
OK
Cancel

6. All the information that you need to record is on the ***Internet Protocol (TCP/IP) Properties*** screen.



Internet Protocol (TCP/IP) Properties

You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

● Obtain an IP address automatically
○ Use the following IP address:
IP address:
Subnet mask:
Default gateway:

● Obtain DNS server address automatically
○ Use the following DNS server addresses:
Preferred DNS server:
Alternate DNS server:

If ***Obtain an IP address automatically*** and ***Obtain DNS server address automatically*** are already checked, your computer is already configured for DHCP. Click ***Cancel*** to close each window, and skip to "Step 2. Disable HTTP Proxy" on page 63.

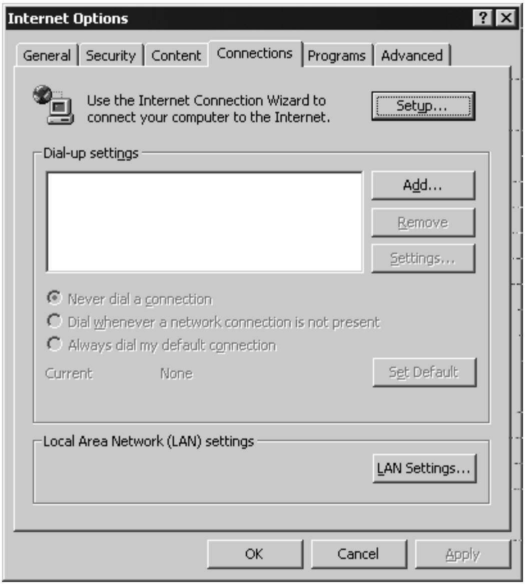
7. Check ***Obtain an IP address automatically*** and ***Obtain DNS server address automatically***. Click ***OK***. Click ***OK*** or ***Close*** to close each window.

Step 2. Disable HTTP Proxy

You will need to verify that the "HTTP Proxy" feature of your web browser is disabled. This is so that your web browser will be able to view the configuration pages inside the Gigaset Router. The following steps are for Internet Explorer and for Netscape. Determine which browser you use and follow the appropriate steps.

Internet Explorer:

1. Open Internet Explorer. Click ***Tools*** - ***Internet Options***.
2. In the ***Internet Options*** window, click the ***Connections*** tab. Next, click the ***LAN Settings*** button.

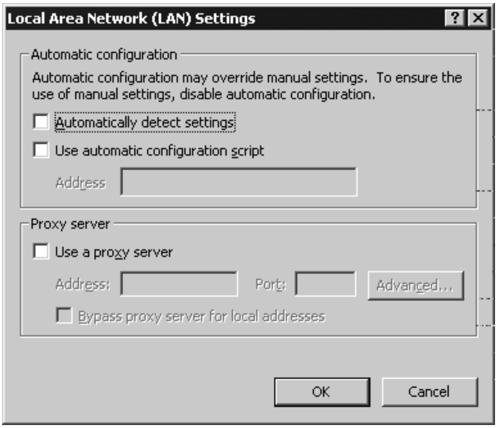


Use the Internet Connection Wizard to connect your computer to the Internet.

● Never dial a connection
○ Dial whenever a network connection is not present
○ Always dial my default connection

Current None

3. Clear all the checkboxes.



Automatic configuration may override manual settings. To ensure the use of manual settings, disable automatic configuration.

☐ Automatically detect settings
☐ Use automatic configuration script
Address

☐ Use a proxy server
Address: Port:
☐ Bypass proxy server for local addresses

4. Click ***OK***, and then click ***OK*** again to close the ***Internet Options*** window.

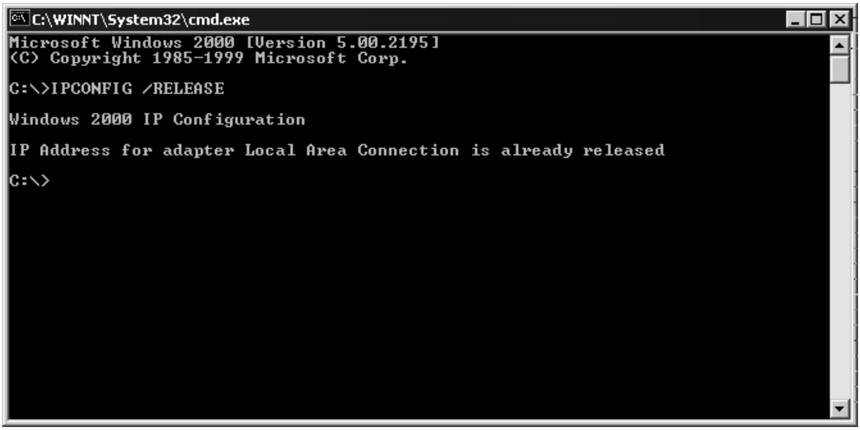
Netscape:

1. Open Netscape. Click ***Edit***, then click ***Preferences***.
2. In the ***Preferences*** window, under ***Category***, double-click ***Advanced***, then click ***Proxies***. Select ***Direct connection to the Internet***. Click ***OK***.

Step 3. Obtain IP Settings From Your Gigaset Router

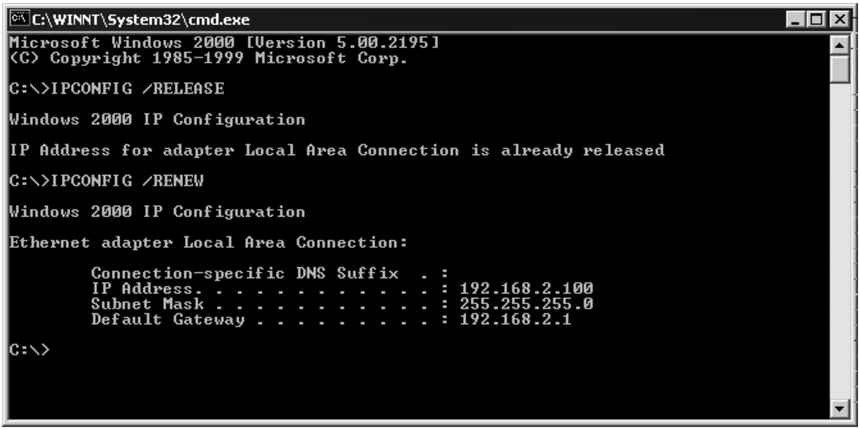
Now that you have configured your computer to connect to your Gigaset Router, it needs to obtain new network settings. By releasing old IP settings and renewing them with settings from your Gigaset Router, you will also verify that you have configured your computer correctly.

1. From the Windows desktop, click ***Start*** - ***Programs*** - ***Accessories*** - ***Command Prompt***.
2. In the ***Command Prompt*** window, type `IPCONFIG /RELEASE` and press the ENTER key.



```
Microsoft Windows 2000 [Version 5.00.2195]
(C) Copyright 1985-1999 Microsoft Corp.

C:\>IPCONFIG /RELEASE

Windows 2000 IP Configuration

IP Address for adapter Local Area Connection is already released

C:\>
```

3. Type `IPCONFIG /RENEW` and press the ENTER key. Verify that your ***IP address*** is now 192.168.2.x (where x means 2-254), your ***Subnet Mask*** is 255.255.255.0 and your ***Default Gateway*** is 192.168.2.1. These values confirm that your Gigaset Router is functioning.



```
Microsoft Windows 2000 [Version 5.00.2195]
(C) Copyright 1985-1999 Microsoft Corp.

C:\>IPCONFIG /RELEASE

Windows 2000 IP Configuration

IP Address for adapter Local Area Connection is already released

C:\>IPCONFIG /RENEW

Windows 2000 IP Configuration

Ethernet adapter Local Area Connection:

        Connection-specific DNS Suffix  . :
        IP Address. . . . . . . . . . . . : 192.168.2.100
        Subnet Mask . . . . . . . . . . . : 255.255.255.0
        Default Gateway . . . . . . . . . : 192.168.2.1

C:\>
```

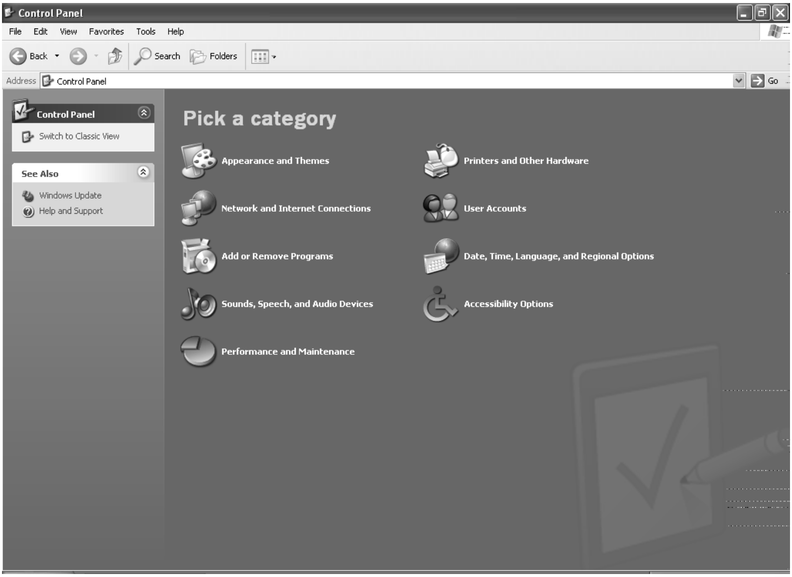
4. Type `EXIT` and press the ENTER key.

Configuring your Computer with Windows XP

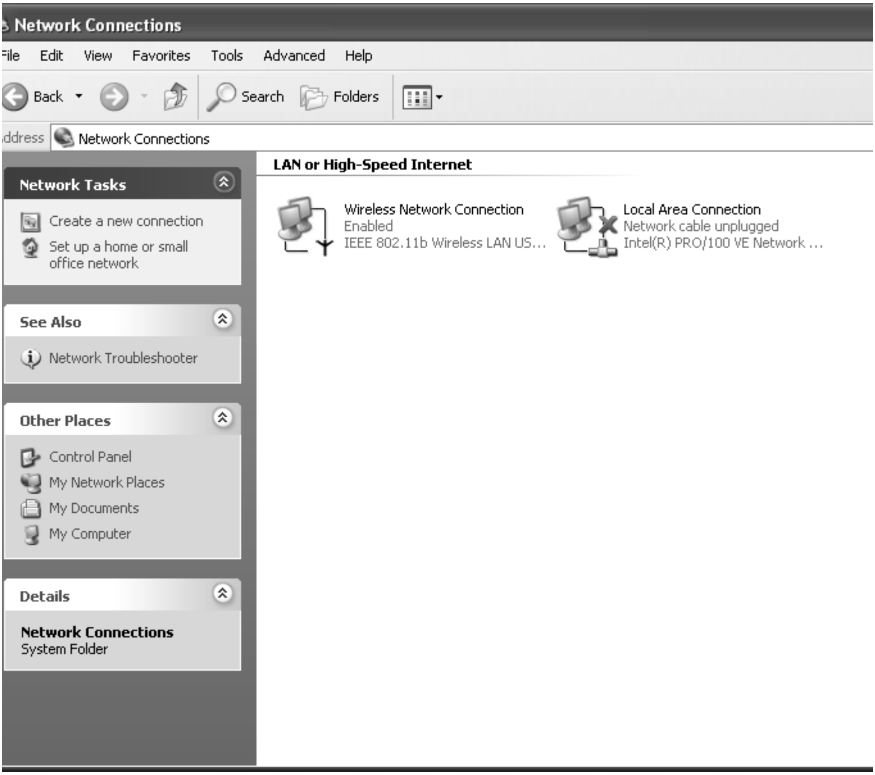
Step 1. Configure TCP/IP Settings

After you have completed the hardware setup, you need to configure your computer to connect to your Gigaset Router. You also need to determine how your ISP issues your IP address. Many ISPs issue these numbers automatically, using a networking technology known as Dynamic Host Configuration Protocol, or DHCP. Other ISPs will specify your IP address and associated numbers, which you must enter manually. This is also known as a static IP address. How your ISP assigns your IP address determines how you will configure your computer.

1. From the Windows desktop, click the ***start*** button. Choose ***Control Panel***.
2. Select the ***Network and Internet Connections*** icon, then click the ***Network Connections*** icon.



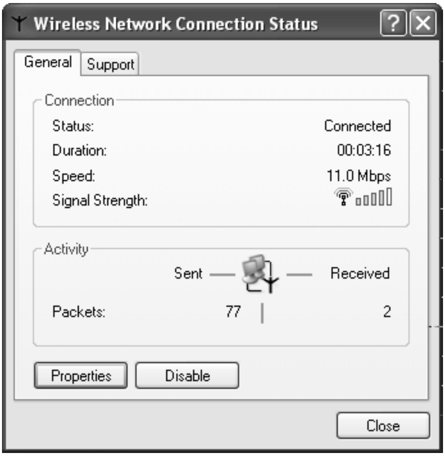
3. Double click on the LAN connection with which you are connected to the router.



Wireless Network Connection
Enabled
IEEE 802.11b Wireless LAN US...

Local Area Connection
Network cable unplugged
Intel(R) PRO/100 VE Network ...

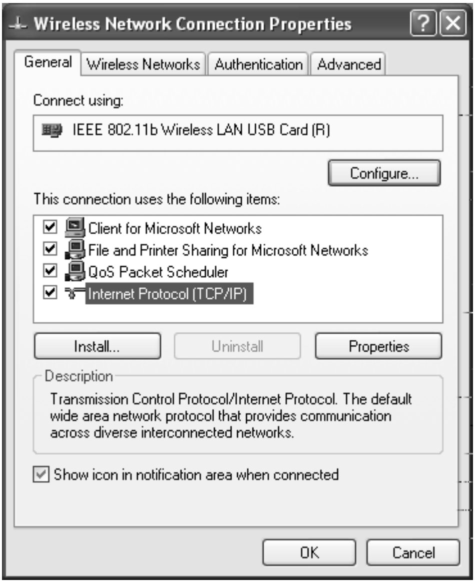
4. Click ***Properties***.



Status: Connected
Duration: 00:03:16
Speed: 11.0 Mbps
Signal Strength:

Packets: 77 2

5. Double-click ***Internet Protocol (TCP/IP)***.



Connect using:

IEEE 802.11b Wireless LAN USB Card (R)

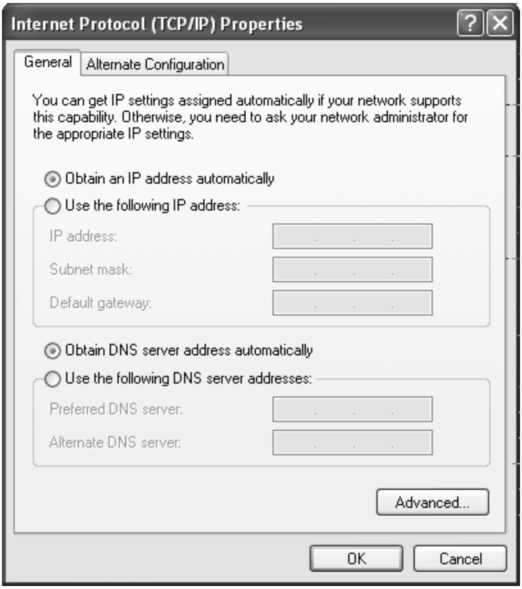
This connection uses the following items:

☑ Client for Microsoft Networks
☑ File and Printer Sharing for Microsoft Networks
☑ QoS Packet Scheduler
☑ Internet Protocol (TCP/IP)

Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.

☑ Show icon in notification area when connected

6. All the information that you need to record is on the ***Internet Protocol (TCP/IP) Properties*** dialog box.



You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

● Obtain an IP address automatically

○ Use the following IP address:

IP address:

Subnet mask:

Default gateway:

● Obtain DNS server address automatically

○ Use the following DNS server addresses:

Preferred DNS server:

Alternate DNS server:

If ***Obtain an IP address automatically*** and ***Obtain DNS server address automatically*** are already selected, your computer is already configured for DHCP. Click ***Cancel*** to close each window, and skip to "Step 2. Disable HTTP Proxy" on page 70.

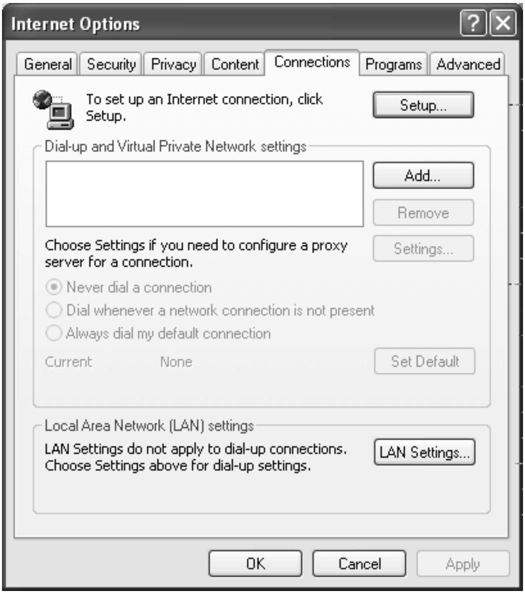
7. Select ***Obtain an IP address automatically*** and then ***Obtain DNS server address automatically***. Then click ***OK***. Click ***OK*** or ***Close*** to close each window.

Step 2. Disable HTTP Proxy

You will need to verify that the "HTTP Proxy" feature of your Web browser is disabled. This is so that your Web browser will be able to view the configuration pages inside your Gigaset Router. The following steps are for Internet Explorer and for Netscape. Determine which browser you use and follow the appropriate steps.

Internet Explorer:

1. Open Internet Explorer and click the ***Stop*** button. Click ***Tools***, then ***Internet Options***.
2. In the ***Internet Options*** window click the ***Connections*** tab. Next, click the ***LAN Settings*** button.



To set up an Internet connection, click Setup.

Dial-up and Virtual Private Network settings

Choose Settings if you need to configure a proxy server for a connection.

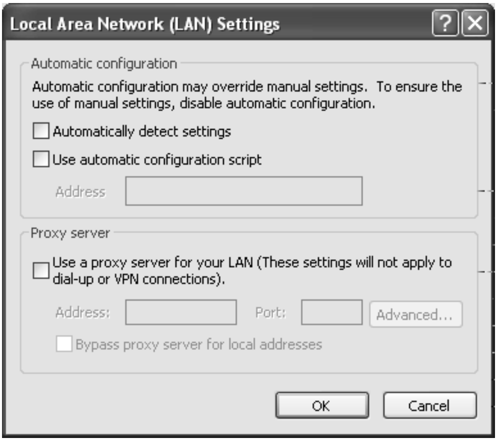
● Never dial a connection
○ Dial whenever a network connection is not present
○ Always dial my default connection

Current None

Local Area Network (LAN) settings

LAN Settings do not apply to dial-up connections. Choose Settings above for dial-up settings.

3. Clear all the checkboxes.



Automatic configuration

Automatic configuration may override manual settings. To ensure the use of manual settings, disable automatic configuration.

☐ Automatically detect settings
☐ Use automatic configuration script
Address

Proxy server

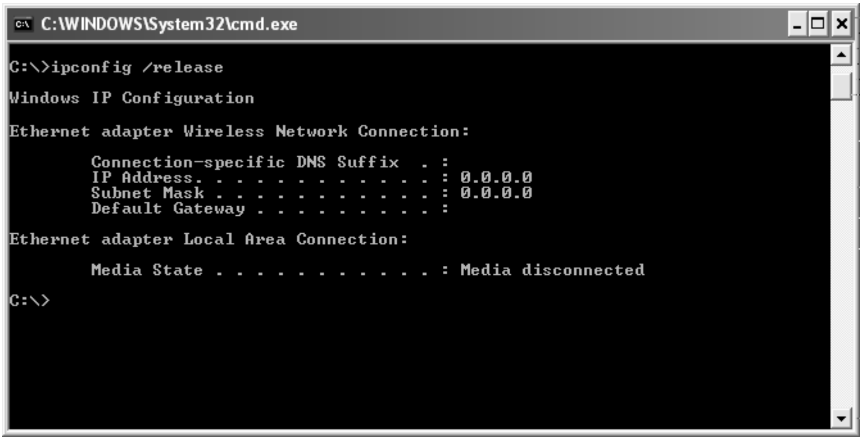
☐ Use a proxy server for your LAN (These settings will not apply to dial-up or VPN connections).
Address: Port:
☐ Bypass proxy server for local addresses

4. Click ***OK***, and then click ***OK*** again to close the ***Internet Options*** window.

Step 3. Obtain IP Settings from your Gigaset Router

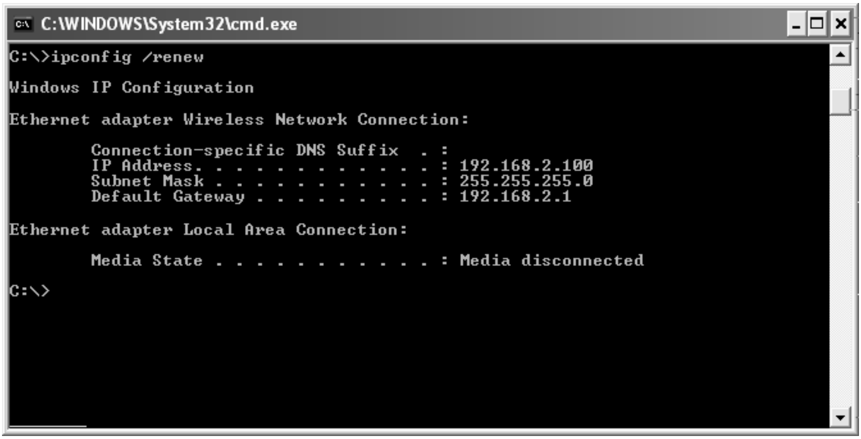
Now that you have configured your computer to connect to your Gigaset Router, it needs to obtain new network settings. By releasing any old IP settings and renewing them with settings from your Gigaset Router, you will also verify that you have configured your computer correctly.

1. From the Windows desktop, click the ***Start*** button, then ***Programs***, then ***Accessories***, and then click ***Command Prompt***.
2. In the ***Command Prompt*** window, type `IPCONFIG /RELEASE` and press the ENTER key.



```
C:\>ipconfig /release

Windows IP Configuration

Ethernet adapter Wireless Network Connection:

        Connection-specific DNS Suffix  . :
        IP Address. . . . . . . . . . . . : 0.0.0.0
        Subnet Mask . . . . . . . . . . . : 0.0.0.0
        Default Gateway . . . . . . . . . :

Ethernet adapter Local Area Connection:

        Media State . . . . . . . . . . . : Media disconnected

C:\>
```

3. Type `IPCONFIG /RENEW` and press the ENTER key. Verify that your ***IP address*** is now 192.168.2.x (where x means 2-254), your ***Subnet Mask*** is 255.255.255.0 and your ***Default Gateway*** is 192.168.2.1. These values confirm that your Gigaset Router is functioning.



```
C:\>ipconfig /renew

Windows IP Configuration

Ethernet adapter Wireless Network Connection:

        Connection-specific DNS Suffix  . :
        IP Address. . . . . . . . . . . . : 192.168.2.100
        Subnet Mask . . . . . . . . . . . : 255.255.255.0
        Default Gateway . . . . . . . . . : 192.168.2.1

Ethernet adapter Local Area Connection:

        Media State . . . . . . . . . . . : Media disconnected

C:\>
```

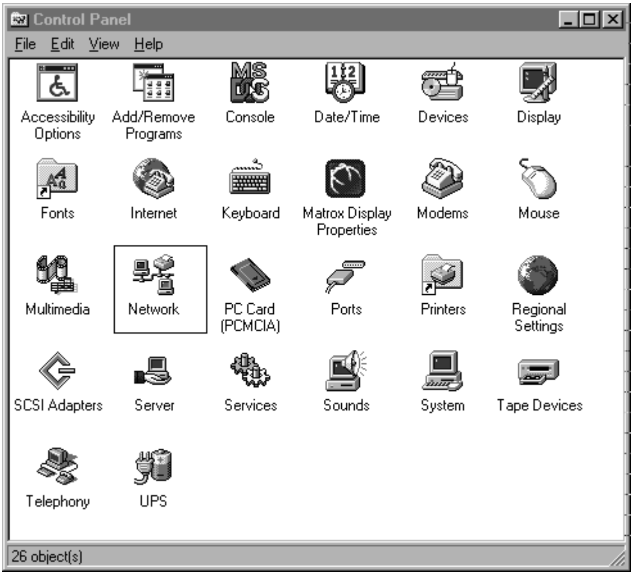
4. Type `EXIT` and press ENTER to close the ***Command Prompt*** window.

Configuring your Computer with Windows NT 4.0

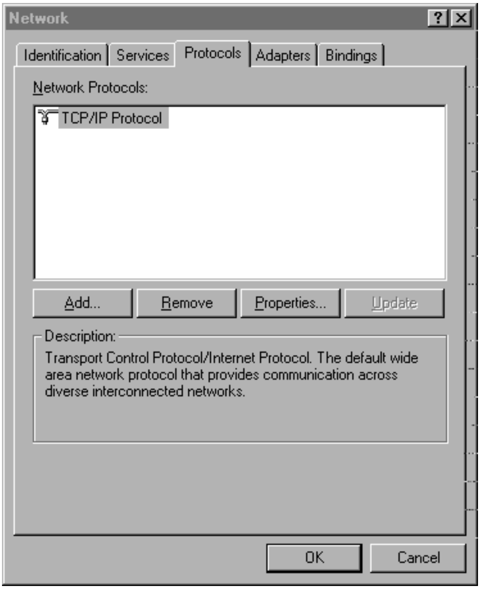
Step 1. Configure TCP/IP Settings

After you have completed the hardware setup, you need to configure your computer to connect to your Gigaset Router. You need to determine how your ISP issues your IP address. Many ISPs issue these numbers automatically using a networking technology known as Dynamic Host Configuration Protocol, or DHCP. Other ISPs will specify your IP address and associated numbers, which you must enter manually. This is known as a static or fixed IP address. How your ISP assigns your IP address determines how you will configure your computer.

1. From the Windows desktop click ***Start*** - ***Settings*** - ***Control Panel***.
2. Double-click the ***Network*** icon.



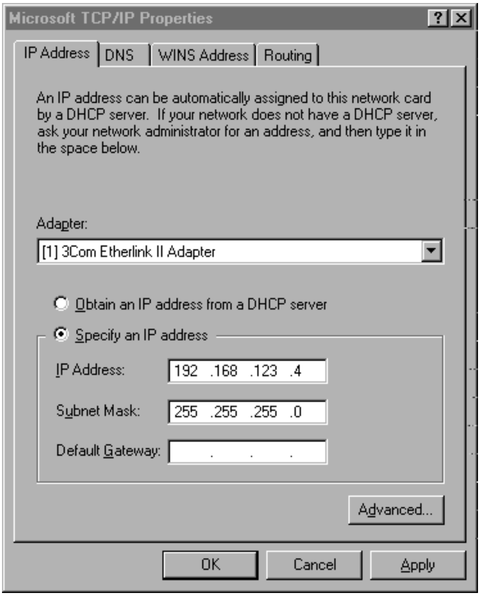
3. Click on the ***Protocols*** tab.



Transport Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.

4. Double-click ***TCP/IP Protocol***.
5. Click on the ***IP Address*** tab.

6. In the ***Adapter*** dropdown list, be sure your Ethernet adapter is selected.



An IP address can be automatically assigned to this network card by a DHCP server. If your network does not have a DHCP server, ask your network administrator for an address, and then type it in the space below.

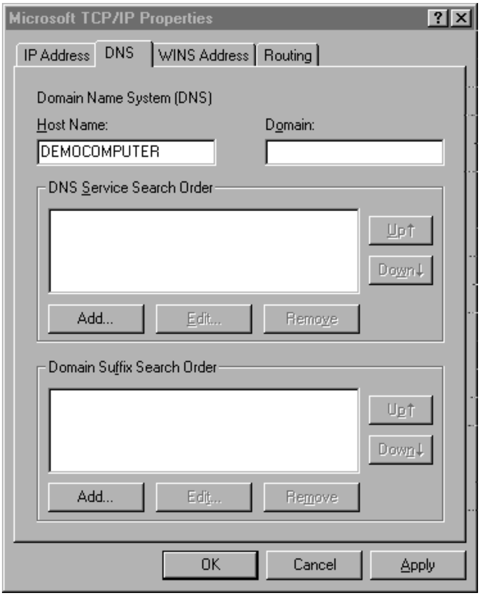
Adapter:
[1] 3Com Etherlink II Adapter

○ Obtain an IP address from a DHCP server
● Specify an IP address

IP Address: 192 .168 .123 .4
Subnet Mask: 255 .255 .255 .0
Default Gateway: . . .

7. If ***Obtain an IP address automatically*** is already checked, your computer is already configured for DHCP. Click ***Cancel*** to close each window, and skip to "Step 2. Disable HTTP Proxy" on page 77. In the ***TCP/IP Properties*** dialog box, click the ***IP address*** tab to locate your ***IP Address***, ***Subnet Mask*** and ***Default Gateway***. Record these values.

8. Click the ***DNS*** tab to see the primary and secondary DNS servers. Record these values.



Host Name: DEMOCOMPUTER

Domain:

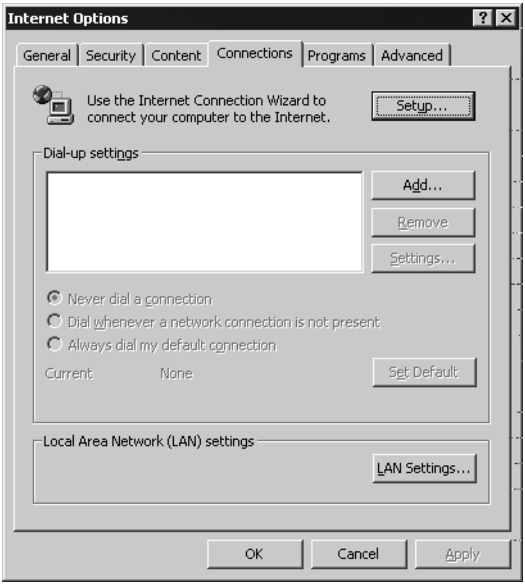
9. After writing down your IP settings, click the ***IP address*** tab. Check ***Obtain an IP address automatically*** and click ***OK***. Click ***OK*** again to close the ***Network*** window.
10. Windows may copy files and will then prompt you to restart your system. Click ***Yes*** and your computer will shut down and restart.

Step 2. Disable HTTP Proxy

You will need to verify that the "HTTP Proxy" feature of your web browser is disabled. This is so that your web browser will be able to view the Gigaset Router configuration pages. The following steps are for Internet Explorer and for Netscape. Determine which browser you use and follow the appropriate steps.

Internet Explorer:

1. Open Internet Explorer. Click ***Tools*** - ***Internet Options***.
2. In the ***Internet Options*** window, click the ***Connections*** tab. Next, click ***LAN Settings***.

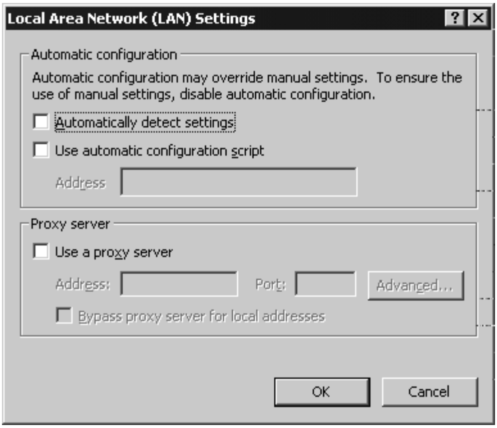


Use the Internet Connection Wizard to connect your computer to the Internet.

● Never dial a connection
○ Dial whenever a network connection is not present
○ Always dial my default connection

Current None

3. Clear all the checkboxes.



Automatic configuration may override manual settings. To ensure the use of manual settings, disable automatic configuration.

☐ Automatically detect settings
☐ Use automatic configuration script
Address

☐ Use a proxy server
Address: Port:
☐ Bypass proxy server for local addresses

4. Click ***OK***, and then click ***OK*** again to close the ***Internet Options*** window.

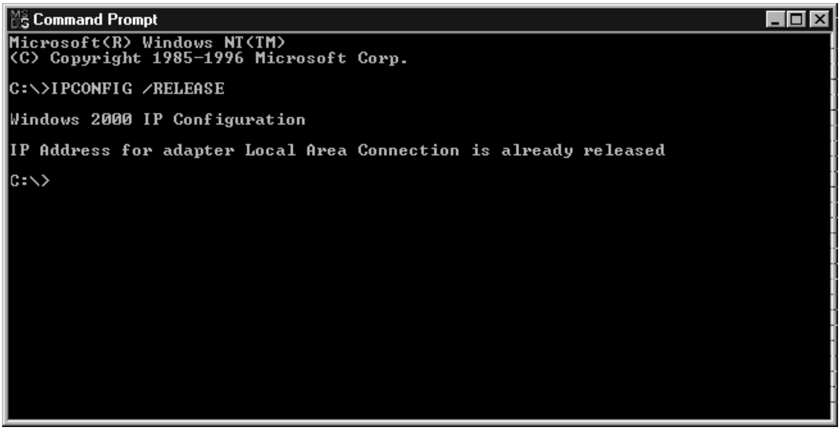
Netscape:

1. Open Netscape. Click ***Edit***, then click ***Preferences***.
2. In the ***Preferences*** window, under ***Category*** double-click ***Advanced***, then click ***Proxies***. Check ***Direct connection to the Internet***. Click ***OK***.

Step 3. Obtain IP Settings from your Gigaset Router

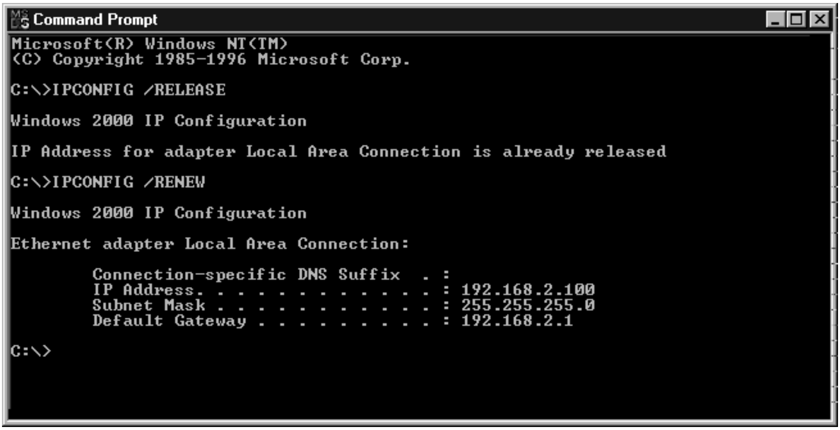
Now that you have configured your computer to connect to your Gigaset Router, it needs to obtain new network settings. By releasing old IP settings and renewing them with settings from the Gigaset Router, you will also verify that you have configured your computer correctly.

1. On the Windows desktop, click ***Start*** - ***Programs*** - ***Command Prompt***.
2. In the ***Command Prompt*** window, type `IPCONFIG /RELEASE` and press the ENTER key.



```
Microsoft(R) Windows NT(TM)
(C) Copyright 1985-1996 Microsoft Corp.

C:\>IPCONFIG /RELEASE

Windows 2000 IP Configuration

IP Address for adapter Local Area Connection is already released

C:\>
```

3. Type `IPCONFIG /RENEW` and press the ENTER key. Verify that your ***IP address*** is now 192.168.2.x (where x means 2-254), your ***Subnet Mask*** is 255.255.255.0 and your ***Default Gateway*** is 192.168.2.1. These values confirm that the Gigaset Router is functioning.

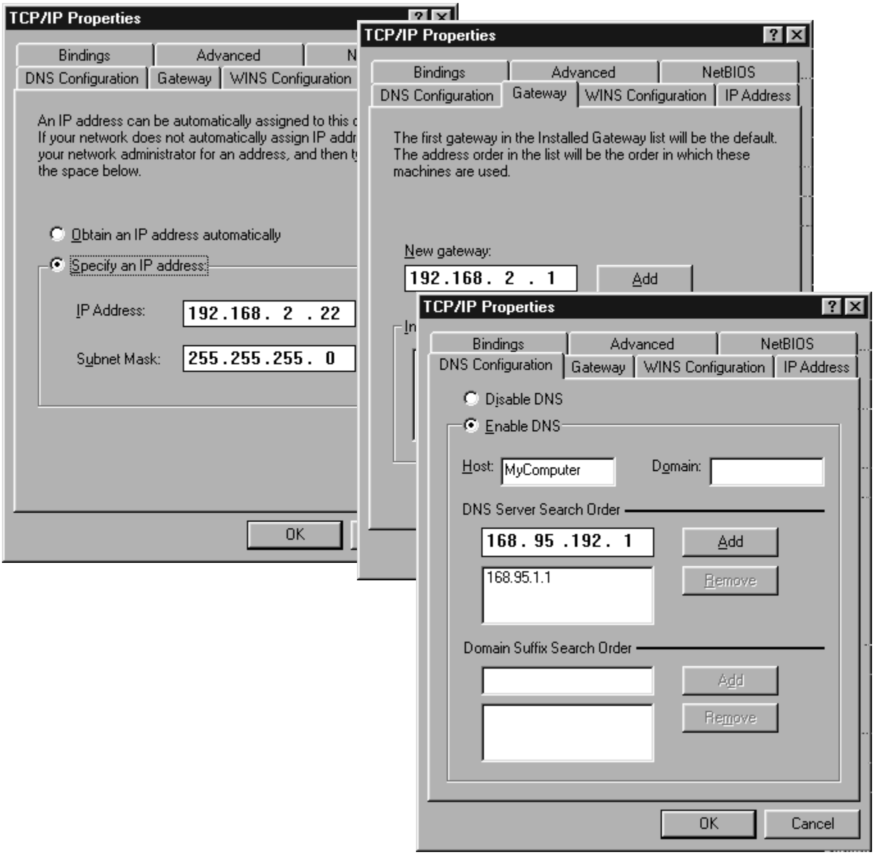


```
Microsoft(R) Windows NT(TM)
(C) Copyright 1985-1996 Microsoft Corp.

C:\>IPCONFIG /RELEASE

Windows 2000 IP Configuration

IP Address for adapter Local Area Connection is already released

C:\>IPCONFIG /RENEW

Windows 2000 IP Configuration

Ethernet adapter Local Area Connection:

        Connection-specific DNS Suffix  . :
        IP Address. . . . . . . . . . . . : 192.168.2.100
        Subnet Mask . . . . . . . . . . . : 255.255.255.0
        Default Gateway . . . . . . . . . : 192.168.2.1

C:\>
```

4. Type `EXIT` and press ENTER to close the ***Command Prompt*** window.

Manual IP Configuration

1. Check ***Specify an IP address*** on the ***IP Address*** tab. Enter an IP address based on the default network 192.168.2.x (where x is between 2 and 254), and use 255.255.255.0 for the subnet mask.
2. On the ***Gateway*** tab, add the IP address of the Gigaset Router (default: 192.168.2.1) in the ***New gateway*** field and click ***Add***.
3. On the ***DNS Configuration*** tab, add the IP address for the Gigaset Router and click ***Add***. This automatically relays DNS requests to the DNS server(s) provided by your ISP. Otherwise, add specific DNS servers in the ***DNS Server Search Order*** field and click ***Add***.



An IP address can be automatically assigned to this c
If your network does not automatically assign IP addr
your network administrator for an address, and then t
the space below.

○ Obtain an IP address automatically
● Specify an IP address:

IP Address: 192.168. 2 . 22
Subnet Mask: 255.255.255. 0

The first gateway in the Installed Gateway list will be the default. The address order in the list will be the order in which these machines are used.

New gateway: 192.168. 2 . 1

○ Disable DNS
● Enable DNS

Host: MyComputer
Domain:

DNS Server Search Order: 168. 95 .192. 1
168.95.1.1

Domain Suffix Search Order

4. After finishing TCP/IP setup, click ***OK***, and then reboot the computer. After that, set up other PCs on the LAN according to the procedures described above.

Verifying your TCP/IP Connection

After installing the TCP/IP communication protocols and configuring an IP address in the same network as the Gigaset Router, use the Ping command to check if your computer has successfully connected to the Gigaset Router. The following example shows how the Ping procedure can be executed in an MS-DOS window.

From the Windows desktop, click ***Start*** - ***Programs*** - ***Accessories*** - ***Command Prompt***. In the ***Command Prompt*** window, type the Ping command:

```
ping 192.168.2.1
```

If a message similar to the following appears:

```
Pinging 192.168.2.1 with 32 bytes of data:
Reply from 192.168.2.1: bytes=32 time=2ms TTL=64
```

a communication link between your computer and the Gigaset Router has been successfully established.

If you get the following message,

```
Pinging 192.168.2.1 with 32 bytes of data:
Request timed out.
```

there may be something wrong in your installation procedure. Check the following items in sequence:

1. Is the Ethernet cable correctly connected between the Gigaset Router and the computer?

   The LAN LED on the Gigaset Router and the Link LED of the network card on your computer must be on.
2. Is TCP/IP properly configured on your computer?

   If the IP address of the Gigaset Router is 192.168.2.1, the IP address of your PC must be from 192.168.2.2 - 192.168.2.254 and the default gateway must be 192.168.2.1.

If you can successfully Ping the Gigaset Router you are now ready to connect to the Internet!

Appendix

Troubleshooting

This chapter describes common problems you may encounter and possible solutions to them. The Gigaset Router can be easily monitored through panel indicators to identify problems. If you cannot resolve any connection problems after checking the indicators, then refer to the other sections in the following table.

Symptom	Action
Power LED is OFF	◆ Power adapter has failed or is disconnected. ◆ Check that the power adapter is connected to the Gigaset Router and to an outlet. ◆ If the power indicator does not light when the power cord is plugged in, you may have a problem with the power outlet, power cord or power adapter. If the unit powers off after running for a while, check for loose power connections, power losses or surges at the power outlet. If you cannot isolate the problem, then the power adapter may be defective. In this case, contact the Service for assistance (see page 87).
LINK/Act LED is OFF	◆ Verify that the Gigaset Router and attached device are powered up. ◆ Make sure the cable is plugged into both the Gigaset Router and the corresponding device. ◆ Verify that the proper cable type is used and that its length does not exceed the specified limits. ◆ Make sure that the network interface on the attached device is configured for the proper communication speed and duplex mode. ◆ Check the adapter on the attached device and cable connections for possible defects. Replace any defective adapter or cable if necessary.

Symptom	Action
Cannot Ping the Gigaset Router from the attached LAN, or the Gigaset Router cannot Ping any device on the attached LAN	◆ Verify that the IP addresses are properly configured. For most applications, you should use the Gigaset Router's DHCP function to dynamically assign IP addresses to clients on the LAN. However, if you manually configure IP addresses on the LAN, verify that the same network address (network component of the IP address) and subnet mask are used for both the Gigaset Router and the LAN devices. ◆ Make sure the device you want to Ping (and the device from which you are Pinging) have been configured for TCP/IP.
Cannot connect using the web browser	◆ Be sure to have configured the Gigaset Router with a valid IP address, subnet mask and default gateway. ◆ Check that you have a valid network connection to the Gigaset Router and that the port you are using has not been disabled. ◆ Check the network cabling between the management station and the Gigaset Router.
Forgot or lost the password	◆ Press the Reset button on the rear panel (holding it down for at least five seconds) to restore the factory defaults. **Warning**: This operation will reset all data to the factory defaults.

Specifications

Standards	IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX FastEthernet IEEE 802.11b
WAN Interface	10Base-T RJ-45 port
LAN Interfaces	10Base-T/100Base-TX 4 RJ-45 ports LAN data transfer rate is up to 10/20 Mbps (10Base-T half/full duplex) or 100/200Mbps (100Base-TX with half/full duplex)
Management	Browser-based management Both DHCP Server and Client provided
Advanced Features	Dynamic IP Address Configuration – DHCP, DNS Firewall – Client privileges, hacker prevention, logging Virtual Server via NAT & NAPT Virtual Private Network – PPTP, L2TP, IPSec pass-through Instrusion Detection, Email Alerting, Parental Control
Indicator Panel	LAN (Link, Activity), WAN (Link, Activity), Power
Dimensions	143 mm x 90 mm x 38,5 mm
Weight	200 g
Input Power	6 V 1A
Maximum Current	0.04 A RMS max. at 110V/240 V
Power Consumption	5 Watts max. at 100-240 VAC
Internet Standards	RFC 826 ARP, RFC 791 IP, RFC 792 ICMP, RFC 768 UDP, RFC 793 TCP, RFC 854-859 TELNET, RFC 1321 MD5, RFC 1497 BOOTP Extension, RFC 1570 PPP LCP Extension, RFC 1631 NAT, RFC1661 PPP, RFC 1700 Assigned Numbers, RFC 1866 HTML, RFC 1945 HTTP, RFC 1994 CHAP, RFC 2131 DHCP, RFC 2637 PPTP
Temperature	Operating 5 to 40° C Storage -40 to 70° C
Humidity	5 % to 95 % (non-condensing)
Safety	EN60950
Compliances	Immunity: EN 61000-3-2/3, EN 61000-4-2/3/4/5/6/8/11

Particular conditions applying to your country have been taken into account.

The device’s compliance with the essential requirements of the R&TTE directive is confirmed by the CE symbol.

Extract from the original declaration

"Hereby Siemens AG declares that the above mentioned product is in compliance with the essential requirements and other relevant provisions of the Directive 1999/5/EC"

The Declaration of Conformity (DoC) has been signed. If required, a copy of the original DoC can be obtained through the company hotline.

CE 0682

Service (Customer Care)

You have access to straightforward support concerning with technical aspects of your device and how to operate it through our Online Support on the Internet:

www.my-siemens.com/customercare

or you can refer to the section "Troubleshooting" on page 83.

If you have any trouble with the equipment, please contact the **Siemens telephone service**:

United Kingdom	0 87 05 33 44 11
Ireland	18 50 77 72 77

The Siemens Service is only available to deal with device faults only. Your specialist dealer will be able to help you with any questions about operating your device.

Please address any questions about the DSL or cable connection to your network provider.

Guarantee certificate (United Kingdom)

Without prejudice to any claim the user (customer) may have in relation to the dealer or retailer, the customer shall be granted a manufacturer's Guarantee under the conditions set out below:

- In the case of new devices and their components exhibiting defects resulting from manufacturing and/or material faults within 24 months of purchase, Siemens shall, at its own option and free of charge, either replace the device with another device reflecting the current state of the art, or repair the said device. In respect of parts subject to wear and tear (including but not limited to, batteries, keypads, casing), this warranty shall be valid for six months from the date of purchase.
- This Guarantee shall be invalid if the device defect is attributable to improper treatment and/or failure to comply with information contained in the user manuals.
- This Guarantee shall not apply to or extend to services performed by the authorised dealer or the customer themselves (e.g. installation, configuration, software downloads). User manuals and any software supplied on a separate data medium shall be excluded from the Guarantee.
- The purchase receipt, together with the date of purchase, shall be required as evidence for invoking the Guarantee. Claims under the Guarantee must be submitted within two months of the Guarantee default becoming evident.

- Ownership of devices or components replaced by and returned to Siemens shall vest in Siemens.
- This Guarantee shall apply to new devices purchased in the European Union. The Guarantee is issued by Siemens plc, Siemens House, Oldbury, Bracknell, Berkshire, RG12 8FZ.
- Any other claims resulting out of or in connection with the device shall be excluded from this Guarantee. Nothing in this Guarantee shall attempt to limit or exclude a Customers Statutory Rights, nor the manufacturer's liability for death or personal injury resulting from its negligence.
- The duration of the Guarantee shall not be extended by services rendered under the terms of the Guarantee.
- Insofar as no Guarantee default exists, Siemens reserves the right to charge the customer for replacement or repair.
- The above provisions does not imply a change in the burden of proof to the detriment of the customer.

To invoke this Guarantee, please contact the Siemens telephone service. The relevant number is to be found in the accompanying user guide.

Guarantee certificate (Ireland)

Scope

- This equipment guarantee applies to end users ("customers"). This guarantee does not in any way affect the customer's statutory rights.
- The guarantee applies to the supplied devices and all their components but not to their installation or configuration or to the services provided by the dealer. Manuals and any software supplied on a separate data medium are excluded from the guarantee. This guarantee does not apply to decorative covers or any other personalised parts or software not included in the scope of supply. The guarantee also does not apply to decorative top or bottom shells for special editions.
- The guarantee provides for devices or components that, despite proper care and use, have demonstrably developed defects due to faulty workmanship and/or faulty materials to be replaced or repaired at our discretion free of charge. The guarantee does not cover normal wear and tear. Alternatively, we reserve the right to replace the defective device with a successor model or reimburse the original purchase price on return of the defective device. Our decision is final. Any legal claims are excluded.

- Claims under the guarantee cannot be made if the defect or damage was caused by improper care or use. Improper care or use includes the following:
  - Opening the device (this is classed as third-party intervention)
  - Manipulating components on the printed circuit board
  - Manipulating the software
  - Defects or damage caused by dropping, breaking, lightning or ingress of moisture. This also applies if defects or damage were caused by mechanical, chemical, radio interference or thermal factors (e.g. microwave, sauna, etc.).
  - Repairs or other work done by persons not authorised by us.
  - Devices fitted with accessories not authorised by Siemens.
- Any further claims due to damage are excluded, such as damage arising outside the device, provided this was not due to gross negligence and/or intent on our part.
- Claims under the guarantee must be made as soon as the defect is noticed.
- A till receipt showing the date of purchase must be presented as proof. Each claim under the guarantee is accepted with the express reservation that subsequent investigations confirm the validity of the claim.
- Any devices or components that are replaced become our property.
- The costs of materials and labour will be borne by us, but not the costs of transport, postage or freight.
- We are entitled, at our discretion, to make technical changes (such as firmware updates) beyond repair or replacement in order to upgrade the device to the latest state of the art. There is no additional charge to the customer for this work. Our decision is final. Any legal claims are excluded.
- The guarantee is valid in the country of purchase. It applies only if the device is operated in the relevant geographical area in accordance with the information on the packaging and in the operating instructions.
- Any further claims are excluded. Siemens is not liable in any circumstances for downtime, loss of profits, loss of data or loss of any other information. The customer alone is responsible for safeguarding such data and information.
- Changes to this guarantee require prior approval by Siemens in writing.

Guarantee period

- The guarantee applies in countries in the EU from 1 January 2002 for a period of 24 months.
- In all other countries the guarantee period shall be the relevant minimum statutory guarantee period, but no longer than 24 months.
- The guarantee period starts on the day of purchase by the customer.
- A successful claim under the guarantee does not extend the guarantee period.
- Work under the guarantee is handled by our Customer Care Centres.

Issued by
Information and Communication mobile
Haidenauplatz 1
D-81667 Munich

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